

S.No	USN	Student Name	Date(From)	Date(To)	Company	External/Internal
1	INH18EE014	FARAZ AHMED MULLA	30-01-2023	01-05-2023	Cappgemini	Internal
2	INH19EE001	ABDUL SAMEED	13-02-2023	08-04-2023	VIJAY ELECTRIC CO.	External
3	INH19EE003	ABHISHEK	31-01-2023	31-07-2023	Cognizant	Internal
4	INH19EE004	ABHISEK BEDANT	28-01-2023	21-03-2023	CAPGEMINI	Internal
5	INH19EE005	ABRAR ALTAZ DAR	30-01-2023	07-02-2023	Cappgemini (maven silicon)	Internal
6	INH19EE007	AGARWAL RAHAT MANOJ KU	30-01-2023	01-05-2023	Cappgemini	Internal
7	INH19EE008	AISHWARYA P	05-03-2023	05-05-2023	MCR technology pvt ltd	External
8	INH19EE009	AISHWARYA V H	08-03-2023	06-04-2023	Bangalore Metro Rail Corporation Ltd	External
9	INH19EE010	ASIRI	03-01-2023	05-01-2023	PLM indishtech Pvt Ltd.	External
10	INH19EE011	AKSHATHA SREE S	07-03-2023	06-04-2023	Bangalore metro rail corporation ltd	External
11	INH19EE011	AKSHATHA SREE S	08-03-2023	04-04-2023	Bangalore metro rail corporation ltd	External
12	INH19EE012	AKSHAY V	03-03-2023	05-05-2023	Turno	External
13	INH19EE013	ANIL HEGDE H	28-02-2023	28-05-2023	Cognizant	Internal
14	INH19EE015	ANJANA KUMARI	01-02-2023	03-05-2023	Maresh Power Control Instrument Syster	External
15	INH19EE016	ANKIT KUMAR	25-02-2023	15-05-2023	K-AKA Technology Services (KTS)	External
16	INH19EE018	ANOOPKUMAR H S	15-02-2023	20-04-2023	Decibel Engineering Systems And Assoc	External
17	INH19EE019	ANUSHA S	07-03-2023	06-04-2023	Bangalore Metro Rail Corporation Ltd	External
18	INH19EE023	CHARISHMA	31-01-2023	30-04-2023	Cappgemini	Internal
19	INH19EE024	CHETHAN DR	27-02-2023	30-04-2023	VYOMA INDUSTRIES	External
20	INH19EE025	CHIRAG PATHAK	05-01-2023	30-06-2023	ComputaCenter	Internal
21	INH19EE027	DECHAMMA	13-02-2023	14-04-2023	Cargill	External
22	INH19EE028	DEEKSHITH MORE	02-02-2023	10-03-2023	JP MORGAN (FORAGE)	External
23	INH19EE029	DEEPAK KUMAR SAH	30-01-2023	15-03-2023	YGK Technology	External
24	INH19EE030	DARSHAN R	15-02-2023	20-04-2023	Decibel Engineering systems and associa	External
25	INH19EE032	DHRUVA S	23-01-2023	05-03-2023	Tata Power Solar Systems Limited	External
26	INH19EE033	EZRA JAMES	31-01-2023	30-06-2023	Maven Silicon	Internal
27	INH19EE035	FAOZ FIROZ	30-01-2023	01-05-2023	Cappgemini	Internal
28	INH19EE037	GN HEMANTH KUMAR	09-01-2023	08-07-2023	Steer Engineering	Internal
29	INH19EE038	G KRISHNA CHAITANYA	30-01-2023	15-03-2023	YGK Technologies	External
30	INH19EE040	GAURAV P KUMAR	01-03-2023	01-06-2023	K-AKA Technology Services (KTS)	EXTERNAL
31	INH19EE042	GAUTAMEE KK	20-02-2023	30-06-2023	Ernst and Young	Internal
32	INH19EE044	HARSHAVARDHAN T	03-03-2023	05-05-2023	Turno	External
33	INH19EE045	HARSHITA Sv	07-03-2023	07-04-2023	Bangalore metro rail corporation LTd	External
34	INH19EE046	HARSHITHA	23-02-2000	22-05-2000	TATA Elxsi	External
35	INH19EE047	J LIKITHA	20-02-2023	20-05-2023	Capegemini	Internal
36	INH19EE048	J PRAJWAL	20-02-2023	30-06-2023	Ernst and Young	Internal
37	INH19EE050	JAYANTH R	08-03-2023	21-04-2023	KARNATAKA POWER CORPORATIO	External
38	INH19EE055	KESAMREDDY DEEPTHI	06-01-2023	25-02-2023	Royalaseema thermal power plant(APGE	External
39	INH19EE057	KHUSHI	08-03-2023	06-04-2023	Bangalore Metro Rail Corporation Ltd	External
40	INH19EE058	KIRAN LAL V	01-02-2023	18-04-2023	Gustovalley technovations	External
41	INH19EE060	Kota Vikramadithya	01-02-2023	15-04-2023	Gustovalley technovations	External
42	INH19EE061	KUMAR ABHISHEK	06-03-2023	02-09-2023	Dynalektric Equipment Private Limited	Internal
43	INH19EE062	KUSHAL AY	06-02-2023	15-04-2023	LTIMindtree	Internal
44	INH19EE065	M GOPAL	16-01-2023	17-04-2023	Amberroot Systems Private Ltd.	Internal
45	INH19EE066	M ROHITH KUMAR REDDY	31-01-2023	31-03-2023	Cappgemini	Internal
46	INH19EE067	MADHAV REDDY C	30-01-2023	30-06-2023	Cappgemini	Internal
47	INH20EE401	BINAY KUMAR YADAV	10-12-2022	25-03-2023	Actio service provider	External
48	INH20EE402	DANAMMA M	08-03-2023	06-04-2023	Banglore Metro Rail Corporation Ltd	External
50	INH20EE403	KOUSHIK P	30-01-2023	14-03-2023	YGK Technology	External
51	INH20EE404	MADIVALAPPA	09-02-2023	10-04-2023	SEG-AUTOMOTIVE INDIA PRIVATE	External
52	INH20EE405	MOHAN P				

M. S. Srinivas
HOD, EEE
Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, K. H. Nagar, 1st Stage, 5th Cross Road,
Bangalore - 560 075, Karnataka, India



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

Department of Electrical and Electronics Engineering Internship Data(2022-2023)

S.No	USN	Student Name	Date(From)	Date(To)	Company	External/Internal
1	INH18EE060	Vernon Victor	13-02-2023	13-05-2023	Bosch Bidadi plant	External
2	INH18EE407	Yashwanth P	10-08-2023	28-02-2023	Bosch Limited, Bidadi plant	External
3	INH19EE068	Manish	22-02-2023	06-04-2023	Elcomsys.com	External
4	INH19EE069	MANOJ KUMAR H V	09-01-2023	04-08-2023	Selco Foundation	External
5	INH19EE070	Manoj KUMAR P	01-02-2023	18-04-2023	Gstovalley Technovations	External
6	INH19EE071	Maruthi B	02-06-2023	30-06-2023	EY India	Internal
7	INH19EE072	MEGHANA N T	06-02-2023	10-03-2023	Seg automotive India private limited	External
8	INH19EE073	MEGHANA S	01-09-2023	04-08-2023	Selco Foundation	External
9	INH19EE074	Mohammad shawali	2/15/2023	3/31/2023	Sobha limited	External
10	INH19EE076	Muntazir abid	1/17/2023	03-06-2023	STD 2nd	External
11	INH19EE077	Muntazir Ali Mir	1/17/2023	03-04-2023	Receiving station budgam	External
12	INH19EE080	NAVEEN RN	03-07-2023	07-09-2023	Cognizant	Internal
13	INH19EE083	P.Sindhu	2/15/2023	5/15/2023	Media Ant	External
14	INH19EE085	P Ravinandan Reddy	01-02-2023	18-04-2023	Gstovalley Technovations	External
15	INH19EE087	POOJITH N	03-01-2023	5/25/2023	K-AKA Technology Services (KTS)	External
16	INH19EE090	R VARUN	02-11-2023	04-11-2023	Mindtree	Internal
17	INH19EE091	RACHNA PALLI	02-01-2023	3/15/2023	PLM Indishtech Pvt Ltd	External
18	INH19EE092	Rahul R	01-03-2023	05-06-2023	K-AKA Technology Services	External
19	INH19EE093	Ritika Kapoor	02-08-2023	03-10-2023	BEL(Bharat electronics Ltd)	External
20	INH19EE095	Sandeep Naik R	01-02-2023	15-04-2023	Gstovalley Technovations	External
21	INH19EE097	Sanskriti Agarwalla	1/25/2023	4/25/2023	Polymer Industries	External
22	INH19EE098	Santhosh Melvin D	01-01-2023	2/28/2023	BOSCH BIDADI	External
23	INH19EE099	Santosh S Kummi	03-03-2023	4/21/2023	Karnataka power corporation limited , Yalahanka	External
24	INH19EE100	Sarthak Ghorai	03-01-2023	05-01-2023	K-AKA TECHNOLOGY SERVICES	External
25	INH19EE101	SATHISH S	03-01-2023	06-01-2023	AKA Technology Services (KTS)	External
26	INH19EE102	SHAFI ALAM	2/16/2023	3/31/2023	RINAC INDIA LIMITED	Internal
27	INH19EE103	Shaik Sameer	06-02-2023	28-04-2023	Airosoft	Internal
28	INH19EE104	Shambhavi Bhagat	1/30/2023	6/30/2023	Dell	External
29	INH19EE105	Shariq Ahmed	1/16/2023	3/25/2023	SBEE Cables (India) limited	External
30	INH19EE106	Sharmi Kanaujia	2/14/2023	3/30/2023	South Eastern Railway	External
31	INH19EE107	Sowmya Shree	01-09-2023	3/31/2023	Newline Engineers and Designers	External
32	INH19EE109	SUBHAJIT DAS	03-01-2023	4/15/2023	K-AKA Technology services	External
33	INH19EE110	Suraj Raju Jadhav	1/23/2023	05-10-2023	Kaashiv infotech	Internal
34	INH19EE113	Swastik Shukla	1/30/2023	4/30/2023	Capgemini	Internal
35	INH19EE114	Tabasum Manzoor	1/30/2023	7/31/2023	Capgemini	Internal
36	INH19EE116	Tejas V	1/31/2023	5/31/2023	Capgemini engineering	Internal
37	INH19EE120	U MOHAMMED ARSHAD	1/30/2023	4/19/2023	YGK Technologies Pvt Ltd	External
38	INH19EE121	Vandana R	02-01-2023	3/17/2023	TECHNOLOGICS GLOBAL PVT LTD.	External
39	INH19EE122	VIDYA G R	16-01-2023	17-04-2023	Amberroot Systems Private Limited	Internal
40	INH19EE123	Vinod Kumar R	01-09-2023	07-10-2023	Steer Engineering	External
41	INH19EE124	Vyas kodge	2/15/2023	3/31/2023	SOBHA Ltd	External
42	INH19EE125	W Y Jhansipriya	02-06-2023	3/30/2023	K-AKA Technology Services,	External
43	INH19EE126	Y.Punith	03-06-2023	09-02-2023	DYNALEKTRIC	Internal
44	INH19EE127	Yannam Ropeswar reddy	30-01-2023	15-03-2023	Ygk technologies	External
45	INH19EE129	Zahra gober sultana	09-12-2022	02-08-2023	Esigelec	External
46	INH19EE091	JESHA NATH V	JAN 23-May 23	MAY 23	Transcal Power	Internal

Sangeetha
5/5/2023

[Signature]
HOD,EEE

Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kaduganahalli, Bellandur Post,
Bengaluru - 560077, Karnataka, India





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

MANUFACTURING AND DESIGN of PCB's

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**AISHWARYA P
1NH19EE008**

Under the Guidance of
Dr Vinoth Kumar. K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled “ **Manufacturing and Design PCB's of electric**, carried out by **AISHWARYA P (1NH19EE008)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr Vinoth Kumar K	Dr.Sujitha.S

SEMESTER ENDEXAMINATION


Internal Examiner


External Examiner

Dr. Raghu N

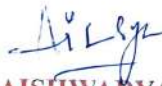
Tain university

20EEE83A-Internship

DECLARATION

I **AISHWARYA P** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Inter as manufacture and Design of PCB’s**” is an original and bonified work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University ,Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


AISHWARYA P
1NH19EE008

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr Vinoth Kumar K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co- operation the completion of Internship would not have been possible.

AISHWARYA P

1NH19EE008

CERTIFICATE FROM INDUSTRY/COMPANY



MCR TECHNOLOGY PVT LTD

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Aishwarya P a student of B.E. bearing USN INH19EE008 from New Horizon College, Bengaluru has successfully completed 02(Two) months (from 5th March 2023 to 4th May 2023) long internship programme at this company. During the period of her internship programme with us, she was found punctual, hardworking and inquisitive.

We wish her every success in life.

For, MCR Technology Pvt Ltd.

Authorized Signature

1/05/2023

☎ 08079628465

● www.mcrtechnology.in

📍 2, 2nd cross, M Gandhinagar, Bengaluru-560037

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: MANUFACTURE OF PCB's FOR ELECTRIC FENCING.





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

“Study of Coal Handling Plant in Thermal Power Plant”

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

KESAMREDDY DEEPTHI

1NH19EE055

Under the Guidance of

Dr. Vinoth Kumar K

Associate Professor, EEE

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

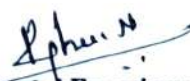
Certified that the internship work entitled **"Study of Coal Handling Plant in Thermal Power Plant"** carried out by **Kesamreddy Deepthi (1NH19EE055)**, bonafide Student of New Horizon College of Engineering submitted the report in the partial fulfilment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr.Vinoth Kumar K	Dr.Sujitha.S

SEMESTER END EXAMINATION


 12/5/23
 Internal Examiner


 External Examiner
 Dr. Raghu.N
 Jain university

20EEE83A-Internship**DECLARATION**

I **KESAMREDDY DEEPTHI (1NH19EE055)** student of New Horizon College of Engineering hereby declare that this Internship Work entitled “**Study of Coal Handling Plant in Thermal Power Plant**” is an original and bonafide work carried out by me at APGENCO, RTPP in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported herein does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.

**KESAMREDDY DEEPTHI****1NH19EE055**

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S.**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. Vinoth Kumar K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

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Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

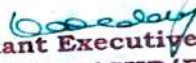


**ANDHRA PRADESH POWER GENERATION
CORPORATION LIMITED**
RAYALASEEMA THERMAL POWER PROJECT

V.V. REDDY NAGAR
KADAPA DISTRICT -516312

CERTIFICATE

This is to certify that **Ms. Kesamreddy Deepthi (INH19EE055)** of fourth year B.E, E.E.E. has successfully completed Internship entitled "Study of Coal Handling Plant in Thermal Power Plant" at **R.T.P.P,** Kalamalla under the guidance and supervision of **Mr. K Obulareddy,** AEE/EMSD-II/CHP/RTPP during the period **06-01-2023 to 25-02-2023.**


Assistant Executive Engineer
EMSD-II/CHP/RTPP
V.V. REDDY NAGAR-516312



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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

VLSI training under Capgemini

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

ABRAR ALTAF DAR

1NH19EE005

Under the Guidance of

Prof. Karthika M.

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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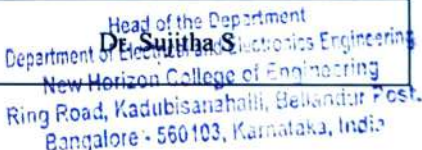
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

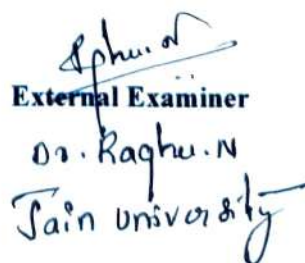
Certified that the internship work entitled **"VLSI Training under Capgemini"** carried out by **ABRAR ALTAF DAR (1NH19EE005)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Kathika M	

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu N
Tain university

DECLARATION

I **ABRAR ALTAF DAR** student of New Horizon College of Engineering hereby declare that, this internship work entitled “VLSI Training under Capgemini” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ABRAR ALTAF DAR

1NH19EE005

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. KATHIKA M.**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

ABRAR ALTAF DAR
1NH19EE005



CERTIFICATE OF COMPLETION



This is to certify that

Abrar Altaf Dar

has successfully completed

Advanced Digital Design

Online Course on 14th day of February 2023

MSUID : 012312031



SIVAKUMAR P R
CEO, MAVEN SILICON

INTERSHIP IMAGES

INTERSHIP TITLE: VLSI Training under Capgemini

Under the Guidance of
Prof. Karthika M.



Figure 1 - Attending the online training and courses

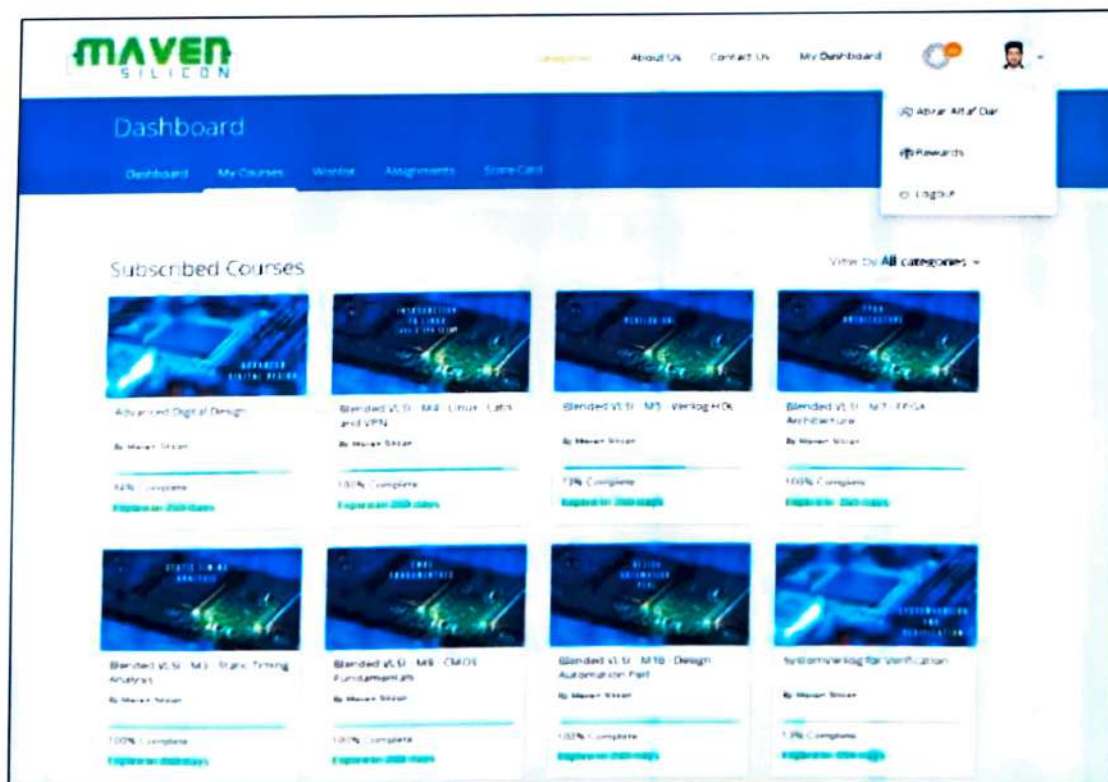


Figure 2 - Online Courses by Maven Silicon



**NEW HORIZON
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

20EEE83A-Internship

Report on

VLSI training under Capgemini

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

EZRA JAMES D'CUNHA

1NH19EE033

Under the Guidance of

Prof. Karthika M.

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled **"VLSI Training under Capgemini"** carried out by **EZRA JAMES D'CUNHA (1NH19EE033)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Kathika M	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu N
Jain university

DECLARATION

I **EZRA JAMES D'CUNHA** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**VLSI Training under Capgemini**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



EZRA JAMES D'CUNHA

1NH19EE033

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. KATHIKA M.**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

EZRA JAMES D'CUNHA
1NH19EE033

CERTIFICATE FROM INDUSTRY/COMPANY



INTERNSHIP IMAGES

INTERNSHIP TITLE: VLSI Training under Capgemini

Under the Guidance of
Prof. Karthika M.



Figure 1 - Attending the online training and courses

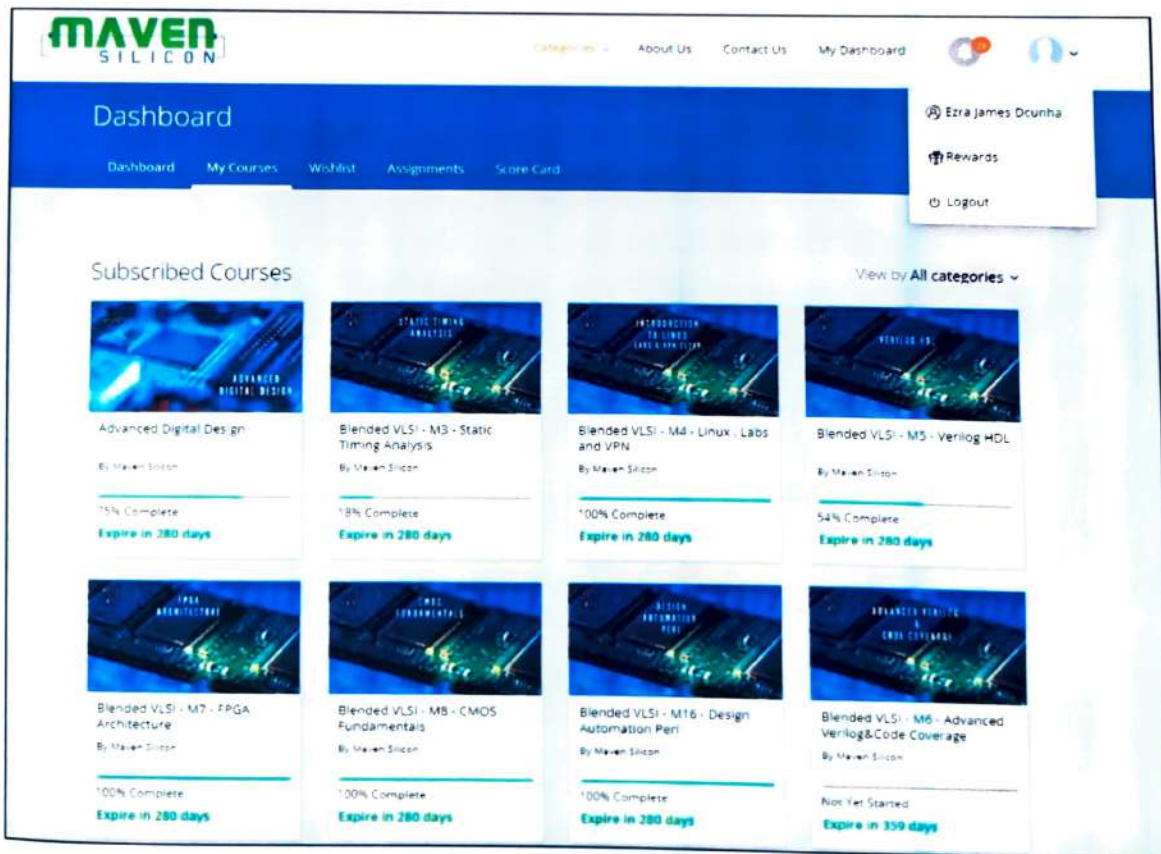


Figure 2 - Online Courses by Maven Silicon



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

**Electrical and Electronics aspects of Advanced Light
Helicopter**

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Student Name: Ritika Kapoor

USN: 1NH19EE093

Guided by

Kumar Gaurav Koshta

Sr. Manager, MRO-CSD, HAL

Internal guide

Dr. R Mohan Das

Associate professor, EEE

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"Electronics and electrical aspects of Advanced Light Helicopter"** carried out by **Ritika Kapoor (1NH19EE093)**, bonafide Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name and Signature of internal guide	Name & Signature of the internship external work Guide	Name & Signature of Head of the Department
		 Head of Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathalli, Bengaluru - 560103 Bengaluru - 560103
Dr. R Mohan Das, Associate professor, EEE	Kumar Gaurav Koshta Sr. Manager, MRO-CSD, HAL	Dr. Sujitha.S Electrical and Electronics, HOD

SEMESTER END EXAMINATION



Internal Examiner



Dr. Raghu N
Jain University
External Examiner



DECLARATION

Ritika Kapoor student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Electronics and Electrical aspects of ALH**” is an original and genuine work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Ritika Kapoor

1NH19EE093

CERTIFICATE FROM ORGANISATION

हैलिकाप्टर - एम आर ओ प्रभाग
हैलिकाप्टर एम आर ओ प्रभाग
हैलिकाप्टर कॉम्प्लेक्स / हैलिकाप्टर कॉम्प्लेक्स
हैलिकाप्टर कॉम्प्लेक्स लिमिटेड
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बॉक्स नं. 1796, विमानपुरा पोस्ट
बैंगलूर - 560 017, भारत
फैक्स (कैलर) : 91 - 80 - 2231 4354



HELICOPTER - MRO DIVISION
HELICOPTER COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Post Box No 1796, Vimanapura Post
Bengaluru - 560 017, India
Ph. (दूरभाष) : 91 - 80 - 2232 3237

हिन्दी बढेगी तभी जब चाहेगे सभी

MRO-H/ (HR)/073/23

MAY 09, 2023

CERTIFICATE

This is to certify that Ms. Ritika Kapoor, (USNNo.1NH19EE093), student of New Horizon College of Engineering, Bangalore has undergone Industrial Training in HAL - Helicopter MRO Division from 13.03.2023 to 09.05.2023.

*During this period her performance was good.
We wish her a bright future.*

For HAL-Helicopter-MRO Division


9/5/23

(SWAPNA M V)

SENIOR MANAGER (HR)-MRO



हैलिकाप्टर एम आर ओ प्रभाग, हैलिकाप्टर कॉम्प्लेक्स-मल्लूर, बैंगलूर
पंजीकृत कार्यालय : 15/1, कब्बन रोड, बैंगलूर - 560 001, भारत
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

VLSI phase-1 training

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Tejas V

USN: 1NH19EE116

Guided by

Dr R Mohan Das

2022-23

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY**

“Jnana Sangama”, Belgaum: 590018





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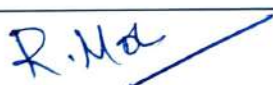

Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"VLSI phase-1 training"** carried out by **Tejas V(1NH19EE116)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	 Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahatti, Bellandur Post, Bengaluru - 560103, Karnataka, India
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. R Mohan Das	Dr. Sujitha S

SEMESTER END EXAMINATION


Internal Examiner


Dr. R. Mohan Das


External Exam

Dr. Raghunath

Tain university

DECLARATION

I **Tejas V** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**VLSI phase-1 training**" is an original and bonafide work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Tejas V
1NH19EE116

CERTIFICATE FROM ORGANISATION





Congratulations on completing Phase 1 and Shortlisted for Phase 2

1 message

Fri, Apr 28, 2023 at 6:30 PM

Hr Maven Silicon <hr@maven-silicon.com>

Cc: Dr.Kalpana A B <abkalpana@gmail.com>, Smt. V. Leela Rani <lee_rani@gvpce.ac.in>, ckommu@gitam.edu, sharma gollakota <sgollako@gitam.edu>, nayanagh.nhce <nayanagh.nhce@newhorizonindia.edu>, rajivranjansingh@presidencyuniversity.in, Akshaya M Ganorkar-Asst. Prof-ECE <akshayamganorkar@presidencyuniversity.in>, Dr. R.Shivakumar <shivakumar@sonatech.ac.in>, Dr.T.Thomas Leonid <thomasleonid@kcgcollege.com>
Bcc: tejasvijendra@gmail.com

Dear Learner,

Sure you are doing well.

Congratulations on successfully completing the first phase of our training program!

We are thrilled to inform you that you have been shortlisted for the phase 2 training. The training is going to be challenging, but we promise it will be equally exciting too.

The specialized module you are shortlisted to get trained for is DFT(Design for Testability)

We have created a Telegram group where you can connect with other participants and instructors to discuss your queries and share your insights. Please join the group at your earliest convenience to stay updated.

Telegram link: <https://t.me/+tAcWVlqmJQgzYTZl>

The link will be revoked on the 5th of May. Please make sure to join before the validity.

The training is expected to start on May 4th.

We will share the day planner and other relevant details with you before May 3rd, so please keep an eye on your inbox for further updates.

Once again, congratulations on making it this far, and we look forward to your continued success in the upcoming module.

Regards,
Team Maven



Bangalore - India
www.maven-silicon.com

CERTIFICATE OF RECOGNITION

This certificate is awarded to

Tejas V

For participating in the VLSI Phase 1 Training
conducted from the month of January - March 2023

Murali Krishna Pulamarasettybala

MURALI KRISHNA PULAMARASETTYBALA

Vice President

Prasad Shetye

PRASAD SHETYE

Executive Vice President



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

**Technical Presales, Designing and Enterprise IT
Infrastructure at Dell Technologies"**

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**Shambhavi Bhagat
1NH19EE104**

Under the Guidance of
Prof. Mohan Das

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**TITLE**" carried out by **NSHAMBHAVI BHAGAT (1NH19EE104)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
 Mr. Mohan Das	 Dr. Sujitha S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION



Internal Examiner

Dr. R. M. Mohan



External Examiner

Dr. Raghu N

Jain University

20EEE83A-Internship

DECLARATION

I **Shambhavi Bhagat** of New Horizon College of Engineering hereby declare that, this internship work entitled **Technical Presales, Designing and Enterprise IT Infrastructure at Dell Technologies**"

is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

NAME: Shambhavi Bhagat

USN:1NH19EE104



20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Mr. Mohan Das**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A Internship
INTERNSHIP IMAGES

**“Technical Presales, Designing and Enterprise IT
Infrastructure at Dell Technologies”**

SHAMBHAVI BHAGAT

1NH19EE104

Under the Guidance of

Dr./Prof. Mohan Das









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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

CAPGEMINI VLSI INTERNSHIP

Submitted in the partial fulfilment of the Final Year Internship

Submitted by
SWASTIK SHUKLA
USN: 1NH19EE113

Guided by
Mr. KARTHEEK VANKADARA

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"CAPGEMINI VLSI INTERNSHIP"** carried out by **SWASTIK SHUKLA(INH19EE113)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraya Technological University, Belgaum during the Year 2022-23.

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KARTHEEK VANKADARA

Dr. S SUJITHA

SEMESTER END EXAMINATION

Internal Examiner

External Examiner

Dr. Raghu. N

Jain university

DECLARATION

I **SWASTIK SHUKLA** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**CAPGEMINI VLSI INTERNSHIP**" is an original and bonafide work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SWASTIK SHUKLA

1NH19EE113

CERTIFICATE FROM ORGANISATION



CERTIFICATE OF RECOGNITION

This certificate is awarded to

Swastik Shukla

For participating in the VLSI Phase 1 Training
conducted from the month of January - March 2023

Murali Krishna Pulamarasettybala

MURALI KRISHNA PULAMARASETTYBALA
Vice President

Prasad Shetye

PRASAD SHETYE
Executive Vice President



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A Internship

Report on

FRANCE EXCHANGE PROGRAM

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

ZAHRA GOHER SULTANA 1NH19EE129

Guided by

Kartheek Vankadara

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE


Certified that the internship work entitled **"FRANCE EXCHANGE PROGRAM"** carried out by **ZAHRA GOHER SULTANA (INH19EE129)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

		
Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
KARTHEEK VANKADARA	Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathalli, Bellandur Post, Bengaluru - 560103, Karnataka, India DR. S. SUJITHA	Dr. MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner



External Examiner
Dr. Raghu. N
Jain University

DECLARATION

I ZAHRA GOHER SULTANA student of New Horizon College of Engineering hereby declare that, this internship work entitled "FRANCE EXCHANGE PROGRAM" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

ZAHRA GOHER SULTANA

1NH19EE129

CERTIFICATE FROM ESIGELEC



ESIGELEC

ÉTAT ASSOCIÉ D'ENSEIGNEMENT SUPÉRIEUR CONSULTAIRE
MEMBRE DE LA CONFÉRENCE DES GRANDES ÉCOLES

ESIGELEC Ecole d'Ingénieurs
Technopôle du Madrillet
Avenue Galilée
76800 Saint Etienne du Rouvray – France

CERTIFICATE

I, the undersigned, Étienne CRAYE, General Manager of ESIGELEC,
certify that:

Mrs SULTANA Zahra Goher

has been a student at ESIGELEC from September 19th, 2022 to February 3rd, 2023.

She has followed the courses of Semester 1 of the **Master in Embedded Systems of ESIGELEC**, within the framework of a collaboration

Saint-Etienne-du-Rouvray, January 24, 2023

Agreement with New Horizon College of Engineering (India)



Étienne CRAYE
General Manager of ESIGELEC



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

SOFTWARE DEVELOPMENT USING PYTHON JAVA

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**SATHISH S
1NH19EE101**

Under the Guidance of
Dr. Vinoth Kumar K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"SOFTWARE DEVELOPMENT USING PYTHON JAVA"** carried out by **SATHISH S (INH19EE101)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Department of Electrical and Electronics Engineering Dr. Sugitha S New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bangalore - 560103, Karnataka, India

SEMESTER ENDEXAMINATION



Internal Examiner

Dr. R. Mohan



External Examiner

Dr. Raghu. N.
Jain university

20EEE83A-Internship

DECLARATION

I **SATHISH S** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**SOFTWARE DEVELOPMENT USING PYTHON JAVA**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SATHISH S
1NH19EE101

20EEE83A-Internship**ACKNOWLEDGEMENT**

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. VINOTH KUMAR K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY**K-AKA TECHNOLOGY SERVICES**

7631930496



Certificate ID: KTS/CERTIFICATE/2023/5981

info@k-akatechnology.in



Intern ID: KTS5641

www.k-akatechnology.in



Ref ID: KTS/INTERNSHIP/2023/KTS5641

Date: 10/05/2023

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Sathish S (INH19EE101)**, a student of **"Electrical and Electronics Engineering"** from **"New Horizon College Of Engineering"** He has completed internship work on the **"Software Development Using Python JAVA"** and He has worked on a project titled **"Design an REST API for and Perform Postman Testing for an prototype bank Application"** at **K-AKA Technology Services (KTS)** from **05th February 2023 to 25th March 2023** under the guidance of **Mr. Abhinav**, Software Engineer. During the period of his internship program with us, He was found punctual and creative.

Internship/Project Guide

Head

K-AKA Technology Services



No.10, 6th Cross, 3rd Block, Behind Dominos, Nandini Layout, Bangalore, Karnataka-(560043)



**NEW HORIZON
COLLEGE OF ENGINEERING**
New Horizon Knowledge Park, Ring Road, Marathalli
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Outer Ring Road, Ballandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

EMBEDDED SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

SANDEEP NAIK R 1NH19EE095

Guided by

Mr. SUNIL S K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"EMBEDDED SYSTEM"** carried out by **SANDEEP NAIK R (1NH19EE095)**, benefice Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.


It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the reported expositied in the department library. The internship report has been approved as it satisfies the academic requirements irrespective internship work prescribed for said Degree.

		
Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. SUNIL S K	Head of the Department Dr. SUJITHA S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India	Dr. MANJUNATHA

SEMESTER ENDEXAMINATION


Internal Examiner

Dr. R. Mohan Das


External Examiner
Dr. Raghu M

DECLARATION

I **SANDEEP NAIK R** student of New Horizon College of Engineering hereby declare that, this internship work entitled **“EMBEDDED SYSTEM”** is an original and benefice work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SANDEEP NAIK R

1NH19EE095

CERTIFICATE FROM ORGANISATION



Gustovalley Technovations



CERTIFICATE OF COMPLETION

This Certifies that

SANDEEP NAIK R

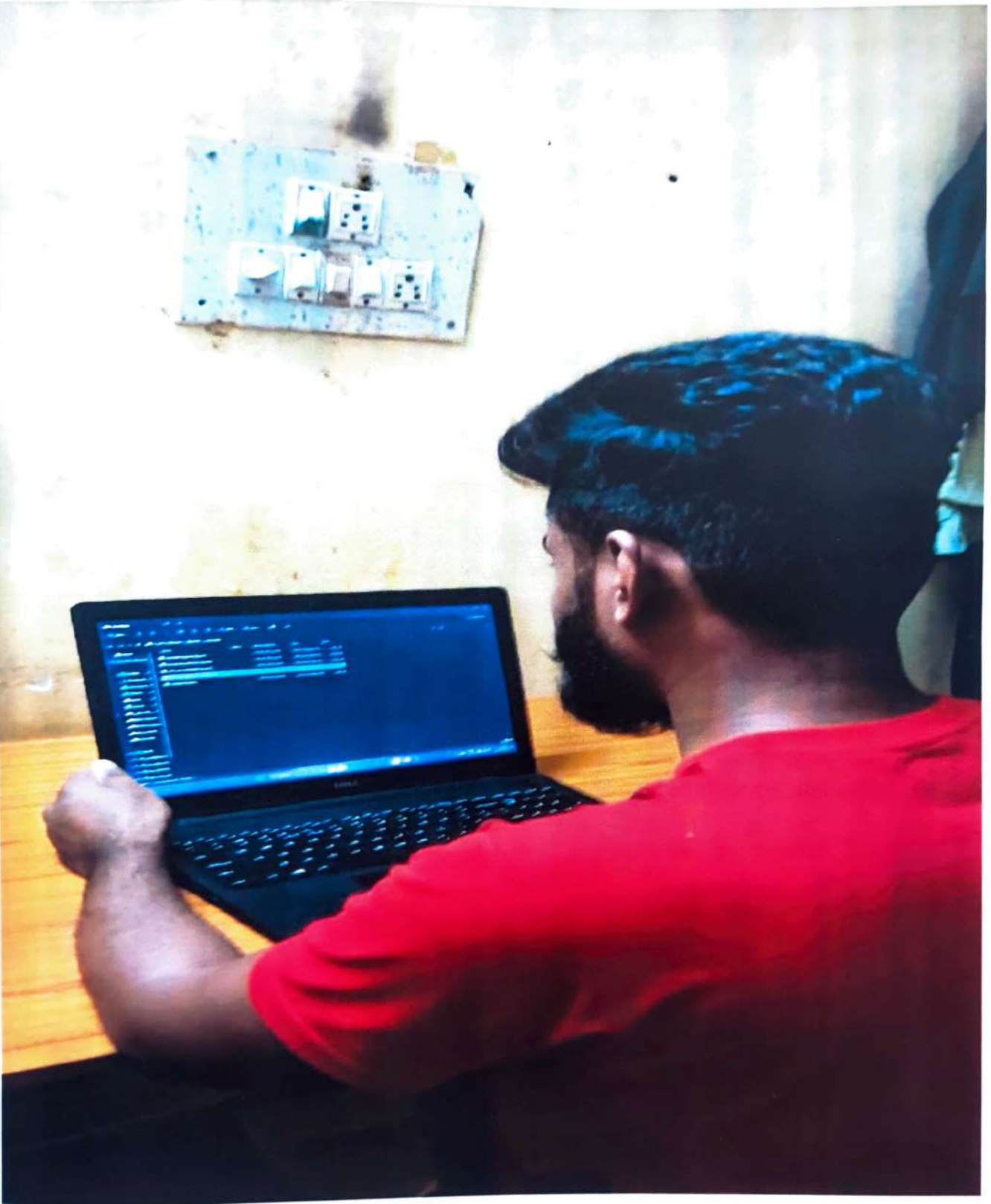
has successfully completed 'Gustovalley Technovations' Internship
Training on Embedded System
which was conducted from 01-02-2023 to 15-04-2023.

The Performance delivered during the program was Good



Authorized Signatory

Certificate No. : GL5115





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

EMBEDDED SYSTEM

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

SNEHA DR

1NH20EE409

Under the Guidance of

Dr.B.Gunapriya

(Associate professor)

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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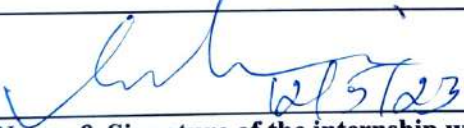

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

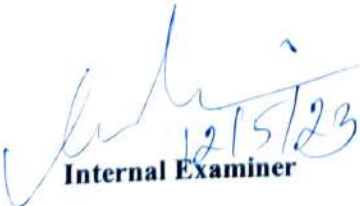
CERTIFICATE

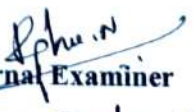
Certified that the internship work entitled "**EMBEDDED SYSTEM**" carried out by **SNEHA DR (1NH20EE409)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 12/5/23	 12/5/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. B. Gunapriya	Dr. Rajhu N. Jain Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Rajhu N. Jain
Tain university

DECLARATION

I **Sneha DR** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**EMBEDDED SYSTEM**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SNEHA DR

Sneha DR

1NH20EE409

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **DR.B.GUNAPRIYA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.



REG NO: AAN8688

PraLoTech Solutions LLP

PraLoTech Solutions Certifies

SNEHA D R [1NH20EE409]

For successfully completing

Training and Internship Programme Conducted for a
Period of 4 Weeks between **9th February 2023** to **25th March 2023**

We take the pleasure in recognizing the achievement

With the award of

“Internship Certificate”

In

“EMBEDDED SYSTEMS WITH IOT”

Given on the **26th** day of **March 2023**

For PraLoTech Solutions LLP

Debita C

Director

Project Manager

PraLoTech Solutions LLP



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

STATOR AND ROTOR PRESSING MACHINE FOR E-VEHICLES

Submitted in the partial fulfillment of the Final Year Internship

Submitted by
Madivalappa
1NH20EE404

Guided by

Dr. AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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Outer Ring Road, Bellandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"STATOR AND ROTOR PRESSING MACHINE FOR E-VEHICLES"** carried out by MADIVALAPPA (1NH20EE404), benefice Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the reported exposed in the department library. The internship report has been approved as it satisfies the academic requirements irrespective internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. AGALYA V	Dr. SUJITHA S

SEMESTER END EXAMINATION



Internal Examiner


External Examiner

DECLARATION

I **MADIVALAPPA** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**STATOR AND ROTOR PRESSING MACHINE FOR E-VEHICLES**" is an original and benefice work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


MADIVALAPPA
1NH20EE404

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S** , Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr.AGALYA VETRI**,Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance ,constant supervision ,timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

MADIVALAPPA

1NH20EE404



SEG
AUTOMOTIVE

10-04-2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **Mr. Madivalappa (Reg.No 1NH20EE404)** currently pursuing 8th Sem BE at New Horizon College of Engineering, Bengaluru has successfully completed his internship at TEF Department with SEG Automotive India Private Limited. from 09-02-2023 to 10-04-2023 at Bangalore location.

We express our sincere gratitude to **Mr. Madivalappa** for her time and efforts.

We wish her all the best for her future endeavors.

Your Faithfully,

For SEG Automotive India Private Limited.

Shyam Sundar
Deputy General Manager- Human Resources
SEG Automotive India Private Limited.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

ELECTRICAL VEHICLE FINANCING

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**HARSHAVARDHAN T
1NH19EE044**

Under the Guidance of
Dr. AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"Electrical Vehicle Financing"** carried out by **HARSHAVARDHAN T(1NH19EE044)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr.AGALYA V 	 Dr.Sujitha.S

SEMESTER ENDEXAMINATION



Internal Examiner



External Examiner

DECLARATION

I **HARSHAVARDHAN T** of New Horizon College of Engineering hereby declare that, this internship work entitled “**Electrical Vehicle Financing**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


HARSHAVARDHAN T
1NH19EE044

20EEE83A-Internship

ACKNOWLEDGEMENT

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I express my warm thanks to my project guide Associate Professor. **Dr. AGALYA V**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

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Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Move ahead with EV

Internship Offer Letter

Date: 1 April, 2023

To: Harshavardhan T

Re: Internship Offer Letter

Dear Harshavardhan,

On behalf of Blubble Pvt. Ltd., we are pleased to extend to you this offer for the position of Intern – Market Research. If you accept this offer, you will begin your internship with the company and will be expected to receive a stipend of Rs 12,000/-per month.

You will be paid per month, less all applicable taxes and withholdings, payable. As an intern you will receive "Internship" status. As an internship trainee, you will not receive any of the employee benefits that regular company employees receive.

Your internship starts on March 21, 2023, and is expected to end on May 5, 2023. However, your internship with the company is "at-will," which means that either you or the company may terminate your internship at any time, with or without cause and with or without notice.

During your internship, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this offer of employment, you acknowledge that you must keep all of this information strictly confidential, and refrain from using it for your own purposes or disclosing it to anyone outside the company.

In addition, you agree that, upon the conclusion of your employment, you will immediately return to the company all of its property, equipment, and documents, including electronically stored information.

By accepting this offer, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and employees, including our policies prohibiting discrimination and harassment. This letter sets forth the internship opportunity we are extending to you, and supersedes and replaces any prior inconsistent statements or discussions. It may be changed only by a subsequent written agreement.

I hope that your association with the company will be successful and rewarding. Please indicate your acceptance of this offer by signing below and returning it to. If you have any questions, please feel free to reply.

Sincerely,

For Blubble Pvt Ltd.

Human Resources

☎ 080 3702 0360

✉ info@turno.club

🌐 www.turno.club

📍 Attic Space Chanakya, 4th Floor, No. 32, 2nd cross, Nanjappa Reddy Layout, Village, opp. Ganga Sagar Hotel, Koramangala 8th Block, Koramangala, Bengaluru, Karnataka 560095



CERTIFICATE

OF COMPLETION

PROUDLY PRESENTED TO:

HARSHAVARDHANT

has successfully completed 'TURNO' internship training on
EV marketing

BUBBLE PVT LTD.
Human Resource

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: "ELECTRICAL VEHICILE FINANCING"

HARSHAVARDHAN T INH19EE044

Under the Guidance of

Prof .Rajesh kumar





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

ELECTRICAL VEHICLE FINANCING

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**AKSHAY V
1NH19EE012**

Under the Guidance of

Dr. AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled “**Electrical Vehicle Financing**” carried out by **AKSHAY V(1NH19EE012)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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Name & Signature of the internship work Guide 	 Name & Signature of Head of the Department
Dr.AGALYA V	Dr.Sujitha.S

SEMESTER ENDEXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **AKSHAY V** of New Horizon College of Engineering hereby declare that, this internship work entitled “**Electrical Vehicle Financing**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



AKSHAY V

1NH19EE012

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

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I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Internship Offer Letter

Date: 1 April, 2023

To: Akshay V

Re: Internship Offer Letter

Dear Akshay,

On behalf of **Blubble Pvt. Ltd.**, we are pleased to extend to you this offer for the position of Intern – Market Research. If you accept this offer, you will begin your internship with the company and will be expected to receive a stipend of **Rs 12,000/-per month**.

You will be paid per month, less all applicable taxes and withholdings, payable. As an intern you will receive "Internship" status. As an internship trainee, you will not receive any of the employee benefits that regular company employees receive.

Your internship starts on **March 21, 2023**, and is expected to end on **May 5, 2023**. However, your internship with the company is "at-will," which means that either you or the company may terminate your internship at any time, with or without cause and with or without notice.

During your internship, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this offer of employment, you acknowledge that you must keep all of this information strictly confidential, and refrain from using it for your own purposes or disclosing it to anyone outside the company.

In addition, you agree that, upon the conclusion of your employment, you will immediately return to the company all of its property, equipment, and documents, including electronically stored information.

By accepting this offer, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and employees, including our policies prohibiting discrimination and harassment. This letter sets forth the internship opportunity we are extending to you, and supersedes and replaces any prior inconsistent statements or discussions. It may be changed only by a subsequent written agreement.

I hope that your association with the company will be successful and rewarding. Please indicate your acceptance of this offer by signing below and returning it to. If you have any questions, please feel free to reply.

Sincerely,

For **Blubble Pvt Ltd.**

Human Resources

☎ 080 3702 0360

✉ info@turno.club

🌐 www.turno.club

📍 Attic Space Chanakya, 4th Floor, No. 32, 2nd cross, Nanjappa Reddy Layout, Village, opp. Ganga Sagar Hotel, Koramangala 8th Block, Koramangala, Bengaluru, Karnataka 560095



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PROUDLY PRESENTED TO:

AKSHAY V

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Human Resource

20EEE83A Internship

INTERSHIP IMAGES

INTERSHIP TITLE: “ELECTRICAL VEHICLE FINANCING”

AKSHAY V 1NH19EE012

Under the Guidance of

Prof .Rajesh kumar





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

SUPPLY CHAIN MANAGEMENT

Submitted in the partial fulfilment of the Final Year Internship

Submitt

VINOD KUMAR R

1NH19EE123

Under the Guidance of
Prof. SURAT PYARI ATTI

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

“JnanaSangama”, Belgaum: 590018





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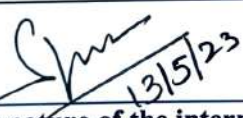

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"SUPPLY CHAIN MANAGEMENT"** carried out by **VINOD KUMAR R (INH19EE123)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 13/5/23	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Surat Pyari Atti	Dr. Sujitha.S

SEMESTER END EXAMINATION


13/5/23

Internal Examiner


13/5/2023

External Examiner

DECLARATION

I **VINOD KUMAR R** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**SUPPLY CHAIN MANAGEMENT**" is an original and bonafide work carried out by me at **New Horizon College of Engineering, Bengaluru** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



VINOD KUMAR R

1NH19EE123

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and

Dr. SUJITHA.S, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. SURAT PYARI ATTI**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



STEER Engineering Private Limited

SEPL/CHR/TA/IN/14

27th December, 2022**Vinod Kumar R**#81, 2nd Cross, Shankara Pura,
Kadugodi, Bengaluru - 560067**Subject: Internship Letter**

Dear Vinod,

With reference to your application and the subsequent interview you had with us we would like to congratulate you on being selected for the Internship Programme. We are excited that you will be joining our team!

The details and deliverables regarding your job profile will be described on your orientation day and you will work with multiple teams to gain cross functional knowledge and your expertise and skills will be utilized by the company based on business demands and objectives.

Internship will be effective from **09th January, 2023 to 8th July, 2023** you are expected to work from 9.00 am to 6.00 pm from Monday to Saturday and expected to report to your college on 2nd & 4th Saturdays for academic purposes. You will be granted one week leave during your exams.

You will receive a monthly stipend of **INR 10,000/-** during your internship period.

Upon successful completion of your internship based on your performance during this period, you will be offered as **Graduate Engineer Trainee, Band Zeta, Level L1 A** with an annual fixed compensation of **INR 4,20,000/-**.

A formal letter of Offer of employment will be issued to you on **10th July, 2023** and you would be expected to join as a full time employee on the said date, subject to above criteria & subject to you completing your Engineering Degree.

The terms of this internship followed by employment will be governed by the training indemnity signed by you on **2nd December, 2022** attached here with for your reference.

During your internship, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this internship, you acknowledge that you must keep all this information strictly confidential, and refrain from using it for your own purposes or from disclosing it to anyone outside the Company.

By accepting this letter, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and interns, including our policies prohibiting discrimination and harassment. I hope that your association with the Company will be successful and rewarding.

For STEER Engineering Private Limited


Anand B.E
Chief Human Resources Officer

Accepted By: Vinod Kumar R


Signature

#290, 4th Main, 4th Phase Peenya Industrial Area, Bangalore - 560 058 India

Phone: +91 80 23723309 / 10, 42723300, Fax: 91 80 23723307

E-mail: info@steerworld.com, Website: www.steerworld.com

N ISO 9001 & ISO 14001 COMPANY

CIN - U05190KA1993PTC015303

STEER A NEW WORLD

20EEE83A Internship
INTERNSHIP IMAGES

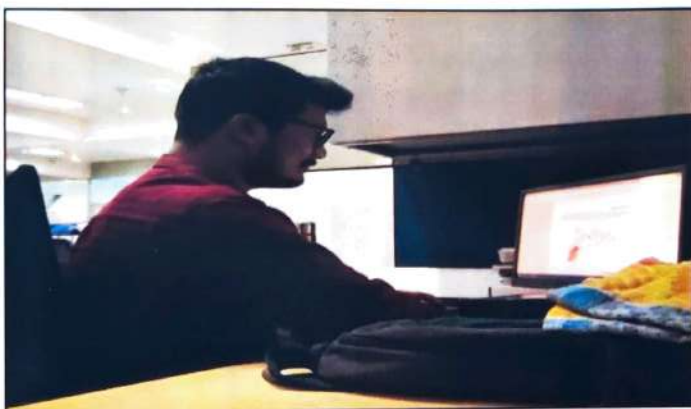
INTERNSHIP TITLE: SUPPLY CHAIN MANAGEMENT

STUDENT NAME: VINOD KUMAR R

USN: 1NH19EE123

Under the Guidance of

Prof. SURAT PYARI ATTI





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**20EEE83A-Internship
Report on**

JAVA DEVELOPER AND INTEGRATION EXPERT

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Yannam Roopeswar Reddy

1NH19EE127

Under the guidance of

Prof.Surat pyari Atti

2022-2023

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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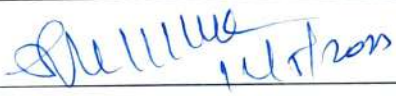
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"JAVA DEVELOPER AND INTEGRATION EXPERT"** carried out by **Yannam Roopeswar Reddy (1NH19EE127)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

		
Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
Prof. SURAT PYARI ATTI	Dr. SUJITHA S	Dr.MANJUNATHA

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **Yannam Roopeswar Reddy** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**JAVA DEVELOPER AND INTEGRATION EXPERT**” is an original and bonafide work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



Yannam Roopeswar Reddy

1NH19EE127

CERTIFICATE FROM ORGANISATION





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

Design a Full Stack Application For Employee Asset Allocation And Monitoring

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

W Y JHANSIPRIYA

1NH19EE125

Under the Guidance of

Prof. SURAT PYARI ATTI

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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Accredited by NAAC with 'A' Grade, Accredited by NBA



Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"DESIGN A FULL STACK APPLICATION FOR EMPLOYEE ASSET ALLOCATION AND MONITORING"** carried out by **W Y JHANSIPRIYA (1NH19EE125)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Ms. Surat Pyari Atti	Dr. Sujitha.S

SEMESTER ENDEXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **W Y JHANSIPRIYA** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**DESIGN A FULL STACK APPLICATION FOR EMPLOYEE ASSET ALLOCATION AND MONITORING**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



W Y JHANSIPRIYA

1NH19EE125

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. SURAT PYARI ATTI**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY




K-AKA TECHNOLOGY SERVICES

7631930496 

Certificate ID: KTS/CERTIFICATE/2022/37191

info@kakatechnology.in 

Intern ID: KTS1664

www.kakatechnology.in 

Ref ID: KTS/INTERNSHIP/2022/KTS1664

Date: 01/04/2023

CERTIFICATE OF INTERNSHIP

This is to certify that **Ms. W Y Jhansipriya (1NH19EE125)**, a student of **"Electrical and Electronics Engineering"** from **"New Horizon College Of Engineering"** She has completed internship work on the **"Software Development Using Python Flask"** and She has worked on a project titled **"Design a Full Stack application for Employ asset allocation & Monitoring"** at **K-AKA Technology Services (KTS)** from **5th February 2023 to 18th March 2023** under the guidance of **Mr. Abhinav**, Software Engineer. During the period of her internship program with us, she was found punctual and creative.



Internship Project Guide



Head

K-AKA Technology Services



20EEE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: DESIGN A FULL STACK APPLICATION FOR EMPLOYEE
ASSET ALLOCATION AND MONITORING**

W Y JHANSIPRIYA 1NH19EE125

Under the Guidance of

Prof. SURAT PYARI ATTI





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRAINEE ENGINEER (A1 Construction and Contracting)

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Faiz Ur Rahman

1NH19EE034.

Under the Guidance of

Prof. Sangeetha C.N

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade. Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled **"TRAINEE ENGINEER"** carried out by **FAIZ UR RAHMAN (1NH19EE034)**, bonafide student at New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Kodandapani Depa	Dr. Sujitha.S

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


12/5/23
External Examiner
Jain University

DECLARATION

I, **FAIZ UR RAHMAN** student at New Horizon College of Engineering hereby declare that, this internship work entitled "**TRAINEE ENGINEER**" is an original and bonafide work carried out to meet New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I, also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.

FAIZ UR RAHMAN
1NH19EE034

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. KODANDAPANI DEPA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

FAIZ UR RAHMAN

1NH19EE034

CERTIFICATE FROM INDUSTRY/COMPANY

A1 Constructions & Interiors

AIC&I051/2023-24

Mob: - +91 7760433206

From,

Irshad Ahmad A1 C&I,
No. 8, Casuarinas Street,
Bangalore-560001.

Internship certificate

To whomever it may concern.

This is to certify Mr. Faiz Ur Rahman INH19EE034 has successfully completed internship training program in electrical site works.

The training program includes electrical designing, switchgear design, building automation, inspection of electrical installations as per shop drawings and commissioning activities.

The training is held during 13/02/2023 to 07/04/2023, during training Mr. Faiz Ur Rahman has been trained and well explained site systems by our experience electrical and electronics engineers 'A1 Contracting, Bangalore, Karnataka)

General manager



Irshad Ahmad,

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: TRAINEE ENGINEER
(A1 CONTRAUTION AND CONTRACTION)

Under the Guidance of

Mr. IRSHAD AHAMED



LV Switchgear Installation at site.



**NEW HORIZON
COLLEGE OF ENGINEERING**

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DEPARTMENT OF ELECTRICAL & ELECTRONICS AND ENGINEERING

20EEE83A-Internship

Report on

"SERVICENOW DEVELOPMENT"

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**Chirag Pathak
1NH19EE025**

Under the guidance of

Mrs. Sangeetha Shreeyas C N

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belagum:590018





NEW HORIZON COLLEGE OF ENGINEERING



Autonomous College Permanently Affiliated to VTU. Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF ELECTRICAL & ELECTRONICS AND ENGINEERING

CERTIFICATE

This is to certify that the Internship work entitled "**ServiceNow Development**", is bonafide work carried out by **CHIRAG PATHAK(1NH19EE025)**, a bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of mentor	Name & Signature of Head of the Department
Mrs. Sangeetha Shreeyas. C.N	Dr. Sujitha S

SEMESTER END EXAMINATION

Internal Examiner


13/5/2023.
External Examiner

20EEE83A-Internship

DECLARATION

I **CHIRAG PATHAK** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**SERVICENOW DEVELOPMENT**” of “ComputaCenter India” is an original and bonafide work carried out by me at **New Horizon College of Engineering**, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

CHIRAG PATHAK
1NH19EE025

20EEE83A Internship

ACKNOWLEDGEMENT

Any achievement, be it scholastic or otherwise does not depend solely on the individual efforts but on the guidance, encouragement and cooperation of intellectuals, elders and friends. A number of personalities, in their own capacities have helped me in carrying out this project. I would like to take an opportunity to thank them all.

First and foremost I thank the management, **Dr. Mohan Manghnani**, Chairman, New Horizon Educational Institutions for providing us the opportunity to do internship.

I am very thankful to my external guide, "**Mr. Bhabatosh Bisi**", **India Leader Service Now Practice**, Computacenter India, Bengaluru for her invaluable guidance, great cooperation and advice for helping me during my Internship.

I would like to thank **Dr. Manjunatha**, **Principal**, New Horizon College of Engineering and **Dr. Sujitha S**, Professor and Head of the Department, Electrical and Electronics Engineering Bengaluru, for constant encouragement and support extended towards completing my internship.

I deeply express my sincere gratitude to my guide "**Mrs. Sangeetha Shreeyas**", Department of EEE, NHCE, Bengaluru, for her able guidance, regular source of encouragement and assistance throughout my internship period.

Last, but not the least, I would like to thank my peers and friends who provided me with valuable suggestions to improve my project.

Name: CHIRAG PATHAK

USN: 1NH19EE025

CERTIFICATE FROM COMPANY



INTERSHIP AND INTENT TO OFFER LETTER

Date: 22 September 2022

Name: Chirag Pathak

Dear Chirag Pathak,

Congratulations,

Throughout the Campus Recruitment process for the **Associate Software Engineer** role, you have demonstrated the skills and attitude we are looking for. You have proved to be our top candidate for this role and we truly believe we can win together.

For these reasons, we are extremely pleased to send you our Internship letter leading to Employment offer as the outcome of the selection process with Computacenter India.

Terms and Conditions along with Compensation details:

1. The Stipend offered for the Internship role is 25000/- (Twenty-five thousand only) per month for the term from 03-Jan-2023 to 30-June-2023 as part of your 8th Semester Project.
2. Based on successful completion of 6months Internship we will be pleased to Offer you an Employment with following Compensation and Benefits:
 - a. INR 500,000/- (Five Lakh Only) annual compensation
 - b. Additional Benefits
 - i. Group medical insurance and Personal accident insurance is upto INR 500,000/- (Five Lakh Only) per annum
 - ii. Term insurance is 30 Lakh for employee (Thirty Lakh only) (Annual Company funded premium of upto INR 35000/-) (Thirty five thousand only)
 - iii. Shift allowance (Upto INR 66,000/- (Sixty-six thousand only) per year for employees working 24/7 shifts)
 - iv. Shift transport (Company funded upto INR 1 20 000) (One Lakh twenty thousand only) per year
 - v. Four (4) months company funded training
3. ~~Service Lock-in~~
 - a. ~~Service lock-in~~ for INR 75000/- (Seventy-five thousand only) if the employee chooses to exit Computacenter India within 18 (Eighteen) months of joining which would be effective from date of Employment with Computacenter i.e. 04 July 2023
4. The Employment Offer is valid subject to successful completion of Internship, completion of Undergraduate Degree without any back-logs before joining Computacenter as an Employee.
5. The Employee shall faithfully perform all of its duties and functions for the position and shall devote best efforts and attention to the business of the Company.

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITTLE: SERVICENOW DEVELOPERS

STUDENT 1 SHIVA SHANKARA.M 1NH20EE408

STUDENT 2 CHIRAG PATHAK 1NH19EE025

Under the Guidance of

Mr. Bhabatosh Bisi





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRAINEE ENGINEER (BOSCH BIDADI)

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Vernon victor

1NH18EE060.

Under the Guidance of

Prof. Vinoth Kumar s

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

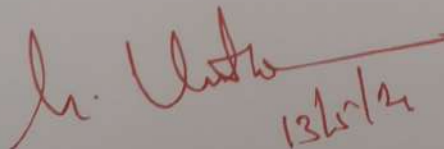
CERTIFICATE


Certified that the internship work entitled **"TRAINEE ENGINEER"** carried out by **Vernon Victor (1NH18EE060)**, bonafide student at New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 12/8	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Vinoth Kumar S	Dr. Sridhar Kadubisanahalli, Bellandur Post, Ring Road, Marathalli, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


13/5/23
Internal Examiner


13/5/2023
External Examiner

DECLARATION

I, **Vernon victor INH18EE060** student at New Horizon College of Engineering hereby declare that, this internship work entitled "**TRAINEE ENGINEER**" is an original and bonafide work carried out to meet New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I, also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.

13/05/23
✓ VERNON

**VERNON VICTOR
INH18EE060**

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. SANGEETHA C.N**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

VERNON VICTOR

1NH18EE060

CERTIFICATE FROM INDUSTRY/COMPANY



BOSCH

Bosch Limited
No. 42, II Phase, Sector 2,
KIADB Industrial Area,
Shanumangala, Bidadi Hobli,
Ramanagar Dist.-562 109.
www.boschindia.com

Tel. :

Fax :

Date : 11.05.2023

Your ref/date

Our ref

BidP1/HRL

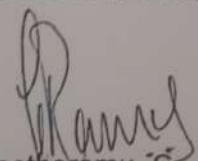
CERTIFICATE

This is to certify that **Mr. VERNON VICTOR** from New Horizon College of Engineering Bangalore, pursuing BE in Electrical & Electronics Engineering has completed his internship training at our Bosch Bidadi Location.

Internship training period was from 13.02.2023 to 11.05.2023.

During this period his performance and conduct was good.

Yours sincerely,
For **Bosch Limited**,


Seetharamu G 11/05/2023
Manager

(Training & Development)

20EEE83A Internship
INTERSHIP IMAGES

INTERSHIP TITLE: TRAINEE ENGINEER

Under the Guidance of

Mr.PRASNATH P



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

VIRTUAL COMMISSIONING AND DIGITAL TWIN

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

RACHNA PALLI

1NH19EE091

Under the Guidance of

Prof. VINOD KUMAR S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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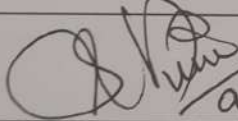
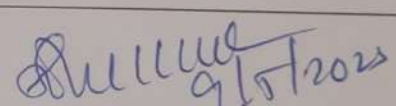
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

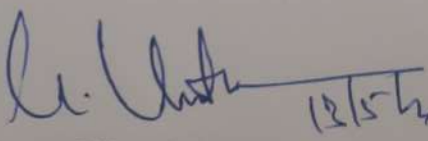
CERTIFICATE


Certified that the internship work entitled **"VIRTUAL COMMISSIONING AND DIGITAL TWIN"** carried out by **RACHNA PALLI (INH19EE091)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 9/5/23	 9/5/2023
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Mr. Vinod Kumar S	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur, Post: Dhokanahalli, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


13/5/23
Internal Examiner


13/5/2023
External Examiner

20EEE83A-Internship

DECLARATION

I **RACHNA PALLI** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**VIRTUAL COMMISSIONING AND DIGITAL TWIN**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Rachna 13-05-23

RACHNA PALLI

1NH19EE091

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. VINOD KUMAR S**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Indish Technologies
Concept | Design | Engineering

Date: 14/04/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Rachna Palli has successfully completed her internship program with PLM Indishtech Pvt Ltd., Bangalore, from 1st February 2023 till 14th April 2023.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations, and she was able to complete the project on time.

We wish her all the best for her upcoming career.

PLM INDISHTECH PVT LTD

For PLM INDISHTECH PVT. LTD.

Signature: _____

Director



Jerry Clifford Francis
Director

CIN - U72200KA2015PTC032080

PLM Indishtech Pvt Ltd, 814, 2nd Floor, Shree Office Solution, Tumkur Kannon Road, Hoskote, Bangalore 560 008, India
T: +91 76187 45305
www.indishtech.com



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Outer Ring Road, Ballandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

EMBEDDED SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

KIRAN LAL V PILLAI

1NH19EE058

Guided by

Dr. AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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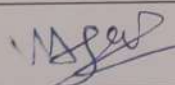

Outer Ring Road, Bellandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

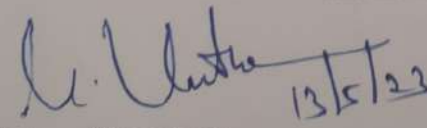
CERTIFICATE

Certified that the internship work entitled "**EMBEDDED SYSTEM**" carried out by KIRAN LAL V (1NH19EE058), benefice Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the reported exposted in the department library. The internship report has been approved as it satisfies the academic requirements irrespective internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. AGALYA V	Dr. SUJITHA S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

KIRAN LAL V PILLAI student of New Horizon College of Engineering hereby declare that, this internship work entitled "**EMBEDDED SYSTEM**" is an original and genuine work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Jyoti Suresvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



KIRAN LAL V

1NH19EE058

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S** , Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. AGALYA VETRI**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

KIRAN LAL V PILLAI

1NH19EE058

CERTIFICATE FROM ORGANIZATION



Gustovalley Technovations

CERTIFICATE OF COMPLETION

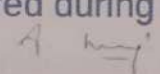
This Certifies that

KIRAN LAL V PILLAI

has successfully completed 'Gustovalley Technovations' Internship
Training on Embedded Systems
which was conducted from 01-02-2023 to 18-04-2023.



The Performance delivered during the program was Good


Authorized Signatory

Certificate No. : GL5085



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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Outer Ring Road, Ballandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

EMBEDDED SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

KOTA VIKRAMAADHITYA 1NH19EE060

Guided by

Prof. Anitha A

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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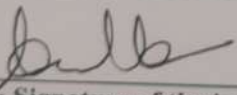
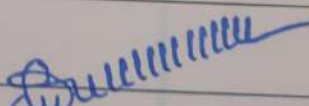
Outer Ring Road, Bellandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

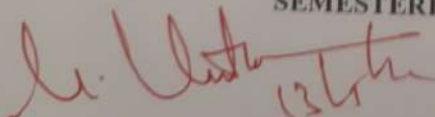
CERTIFICATE

Certified that the internship work entitled **"EMBEDDED SYSTEM"** carried out by **KOTA VIKRAMAADHITYA (INH19EE060)**, beneficent Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the reported exposed in the department library. The internship report has been approved as it satisfies the academic requirements irrespective internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Anitha A	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India Dr. Sujitha S

SEMESTER ENDEXAMINATION


13/5/2023

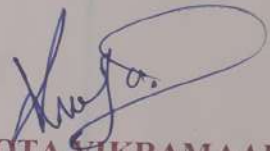
Internal Examiner


13/5/2023
External Examiner

DECLARATION

KOTA VIKRAMAADHITYA student of New Horizon College of Engineering hereby declare that, this internship work entitled "**EMBEDDED SYSTEM**" is an original and benefice work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or ward was conferred on an earlier occasion by any student.



KOTA VIKRAMAADHITYA

1NH19EE060

CERTIFICATE FROM ORGANISATION



Gustovalley Technovations



CERTIFICATE OF COMPLETION

This Certifies that

KOTA VIKRAMAADHITYA

has successfully completed 'Gustovalley Technovations' Internship
Training on Embedded System
which was conducted from 01-02-2023 to 15-04-2023.



The Performance delivered during the program was Good

Authorized Signatory

Certificate No. : GL5115

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S** , Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. ANITHA A** , Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

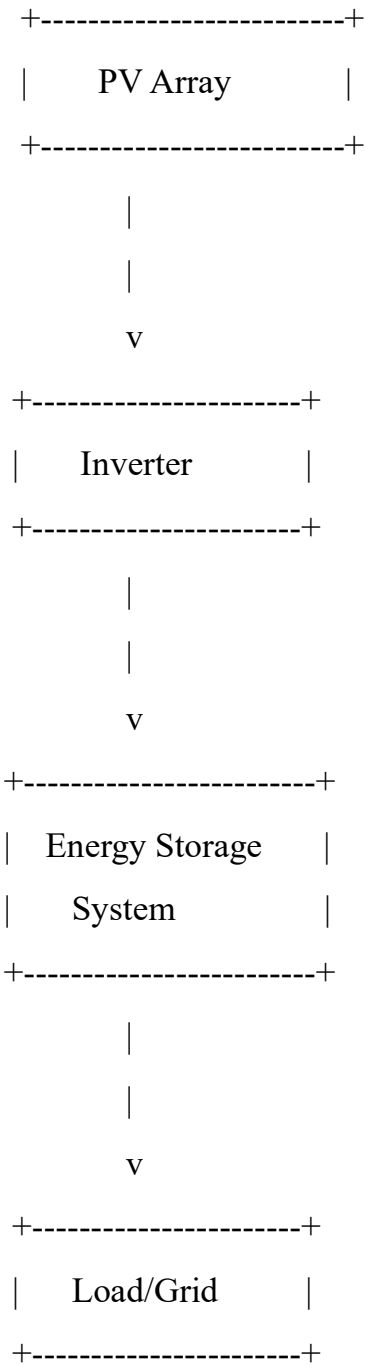
Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

KOTA VIKRAMAADHITYA

1NH19EE060

Certainly! Here is a block diagram illustrating an Energy Storage System (ESS) and its role in PV energy management:

...



...

Explanation of the block diagram:

1. PV Array: The PV array consists of multiple solar panels that convert sunlight into electrical energy (DC power). It is the primary source of energy in a PV system.
2. Inverter: The inverter converts the DC power generated by the PV array into AC power. It ensures that the electrical energy produced by the PV system is compatible with the grid or load requirements.
3. Energy Storage System (ESS): The ESS comprises batteries or other energy storage devices. Its role is to store excess energy generated by the PV array that is not immediately consumed by the load or fed into the grid. The ESS can store the surplus energy during periods of high PV generation and supply it back to the load or grid when needed.
4. Load/Grid: The load represents the electrical devices or appliances that consume the energy produced by the PV system. The grid refers to the utility grid to which the PV system can be connected. The load can draw power directly from the PV array or utilize energy stored in the ESS. In case the PV system generates more power than the load demands, the excess energy can be fed back into the grid.

Role of ESS in PV energy management:

The ESS plays a vital role in PV energy management by addressing two key aspects:

1. Energy Balancing: PV energy generation varies throughout the day due to factors like sunlight availability and weather conditions. The ESS allows for efficient energy balancing by storing excess energy during periods of high PV generation and releasing it during periods of low or no PV generation. This helps to match the supply and demand of energy, ensuring a stable and consistent power supply to the load.
2. Load Shifting and Time-Shifting: The ESS enables load shifting by storing energy when electricity costs are low (e.g., during off-peak hours) and supplying it to the load during peak hours when electricity costs are higher. This helps optimize energy consumption and reduce energy costs. Additionally, the ESS facilitates time-shifting of PV energy by storing it during the day and utilizing it during the evening or nighttime when the PV array is not actively generating power.

By incorporating an ESS into a PV system, the overall efficiency, reliability, and flexibility of energy management are significantly enhanced. It allows for better utilization of the PV system's generated energy, minimizes dependency on the grid, and enables better integration of renewable energy sources into the overall energy ecosystem.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRAINEE ENGINEER (BOSCH BIDADI)

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Vernon victor

1NH18EE060.

Under the Guidance of

Prof. Vinoth Kumar s

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

ELECTRICAL PANEL DESIGN AND ASSEMBLY

Submitted in the partial fulfilment of The Final Year Internship

Submitted by

**SHAIF ALAM
1NH19EE102**

**Under the Guidance of
Mr. KARTHEEK VANKADARA**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“JnanaSangama”, Belgaum:590018**



2022-23



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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **“ELECTRICAL PANEL DESIGN AND ASSEMBLY”** carried out by **SHAIK ALAM (1NH19EE102)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, **New Horizon College of Engineering of Visveswaraya Technological University, Belgaum** during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the Internship work Guide	Name & Signature of Head of the Department
Mr.KARTHEEK VANKADARA	Dr. Sujitha . S

SEMESTER END EXAMINATION



Internal Examiner



External Examiner

20EEE83A-Internship

DECLARATION

I I **SHAIF ALAM** student of New Horizon College of Engineering here by declare that this internship work entitled "ELECTRICAL PANEL DESIGN AND ASSEMBLY "is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.



SHAIF ALAM

1NH19EE102

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and help when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my internship guide **Mr. KARTHEEK VANKADARA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance, constant supervision, timely suggestion, and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

SHAIF ALAM

1NH19EE102

CERTIFICATE FROM INDUSTRY/COMPANY

Feb 14th, 2023

Mr.Shalf Alam,
Rahmat Bee Manzil, 09th Main,
BTM 01st Stage, Bangalore – 560 029.
Karnataka.

Dear Shalf,

Subject: Internship Letter

We are pleased to offer you as an **"Intern – Electrical"** at our **Bangalore Factory** as the part of your 08th Semester (BE, EEE – USN 1NH19EE102). You will report to **Mr. Nagendra H R (Asst.Manager – Electrical)**.

The Internship appointment letter is valid from 16.02.2023 to 31.03.2023. Your Monthly stipend during internship will be Rs.15000 per month.

Further, you should follow the company's norms and procedure during internship program at our office / factory. Dress code shall be formal during internship.

You will receive the Internship completion certificate after successful completion of internship.

Thanking you,

for RINAC INDIA LIMITED,

JJI JOSHY
Asst.MANAGER – HR & ADMIN

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: ELECTRICAL PANEL DESIGN AND ASSEMBLY

STUDENT : SHAIK ALAM

USN : 1NH19EE102

**Under the Guidance of
MR. NAGENDRA HR**





NEW HORIZON
COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru - 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

20EEE83A Internship

Report on

**DISTRIBUTION TRANSFORMERS
MANUFACTURING AND TESTING**

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**ABDUL SAMED
1NH19EE001**

Under the Guidance of

Prof. KODANDAPANI DEPA

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belgaum: 590018





NEW HORIZON
COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA



Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled **"DISTRIBUTION TRANSFORMERS MANUFACTURING AND TESTING"** carried out by **ABDUL SAMED (1NH19EE001)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Kodandapani Depa	Dr. Sujitha. S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu. M


Sain university

20EEE83A-Internship

DECLARATION

I **ABDUL SAMED** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**DISTRIBUTION TRANSFORMERS MANUFACTURING AND TESTING**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgium.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

ABDUL SAMED
INH19EE001

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S.** Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. Kodandapani Depa**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

ABDUL SAMED

1NH19EE001

CERTIFICATE FROM ORGANISATION



VIJAY ELECTRIC CO.

AN ISO 9001:2015 CERTIFIED COMPANY

146/11/34.3, Kanchikoppa Village

Dattapura Hobli, Bangalore - 562130

Mobile : +91 9886406701, 9896606704

Email: info@vijayelectric.com, sales@vijayelectric.com



IEC/INT/051/2023-24

Date:08/04/2023

From,
Vijay electric co.,
No.146/117, Dasanpura hobli,
Magadi main road, Bangalore.

Internship Certificate

This is to certify that Mr. Abdul samed (USN:-1NH19EE001) has done his internship in transformer manufacturing factory located at VIJAY ELECTRIC CO., Dasanpura hobli, Bangalore-562130 for 45 working days from 13/02/2023 to 07/04/2023.

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the projects on time.

We wish him all the best for his upcoming career.



Vijay Electric co.,

Manufacturer of Power & Distribution Transformers

20EEFE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: DISTRIBUTION TRANSFORMERS
MANUFACTURING AND TESTING**

ABDUL SAMEED INH19EE001

Under the Guidance of

Prof. KODANDAPANI DEPA





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEEE83A-Internship

Report on

VLSI - Capgemini

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

ABHISEK BEDANT

INH19EE004

Under the Guidance of

Prof. Ms. ANITHA

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**VJLS-Capgemini**" carried out by **ABHISEK BEDANT**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed or said Degree.

Name & Signature of the internship work Guide		Name & Signature of Head of the Department	
Ms. ANITHA		Department of Electrical and Electronics Engineering Dr. Supthas, New Horizon College of Engineering Ring Road, Kattahalli, Bellandur, Post Bengaluru - 560103, Karnataka, India	

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu. M.

Tain University

CHAPTER 9

CONCLUSION

Being and electrical and electronics engineer its great to study about VLSI . It involves studying about various topics like advanced digital design , Digital electronics , Verilog, Linux, STA ,FPGA and CMOS fundamentals . All these topics play a vital role in designing integrated circuits. It gives a various job opportunities similar to DFT engineer, DV engineer, DD engineer and PD engineer. There are various job opportunities and working on newer technologies in semiconductor industry

CHAPTER-5

BIBLIOGRAPHY

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- <https://elearn.maven-silicon.com/material/course/60#2540>
- <https://elearn.maven-silicon.com/material/course/62>
- <https://elearn.maven-silicon.com/material/course/59#2574>
- <https://elearn.maven-silicon.com/material/course/64#2568>
- <https://elearn.maven-silicon.com/material/course/65#2573>

20EEE83A-Internship**ACKNOWLEDGEMENT**

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the internship.

I am grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHANMANGHANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Ms. ANITHA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A-Internship

DECLARATION

I ABHISEK BEDANT student of New Horizon College of Engineering hereby declare that, this internship work entitled "**VLSI-Capgemini**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

ABHISEK BEDANT

INH19EE004

CERTIFICATE FROM ORGANISATION



Capgemini Technology Solutions India Private Limited
11th Floor, 11th Avenue, 11th Avenue, 11th Avenue
11th Floor, 11th Avenue, 11th Avenue, 11th Avenue
11th Floor, 11th Avenue, 11th Avenue, 11th Avenue
11th Floor, 11th Avenue, 11th Avenue, 11th Avenue
11th Floor, 11th Avenue, 11th Avenue, 11th Avenue

Supernet ID: 2005001

Letter of Intent ("LOI")

December 17, 2022

Dear ABHISEK REDDAN,

We are pleased to inform that your candidature has been shortlisted for the position of **Senior Analyst/AS** with **Capgemini Technology Services India Limited** (hereinafter referred to as "Capgemini" or Company). You will be required to participate and complete the pre-onboarding training program assigned and applicable to you as may be communicated by the Company later. Please note that it is essential for you to participate, efficiently leverage and successfully complete the program as a prerequisite prior to being onboarded as an employee with Capgemini.

We request you to carefully read and understand the Terms and Conditions of this Letter of Intent with Annexures hereto (hereinafter referred to as LOI).

- Please note that your name mentioned in this LOI will be used to create your records in Capgemini & the same will be continued for all the communication & Company documentation purpose. In case you need a change in the name, please notify before commencement of training. Please note that no changes to the record can be made later in time. The name provided by you should match with the identification documents submitted to the Company, such as Aadhar Card, PAN card, Passport etc.
- We are proposing comprehensive package and benefits post-onboarding, the details of which are set forth in Annexure 1 to this LOI.
- Upon accepting this LOI, you will be required to submit a set of documents as mentioned in the Annexure 2. Thereafter, you will be provided access to our pre-onboarding training program, industry ready. This will enable you to learn and master the concepts and skills required to be self-paced e-learning/ hybrid model of training. The learning journey will be inclusive of assignments, assessments, hackathons/ competitions, and webinars as deemed appropriate by Capgemini.
- The program made by you in this learning journey would not only help you in getting onboarded but also help you to be prepared for advanced skills relevant to your career at Capgemini. We recognize your contribution to accelerate your career in this competitive industry.
- Pre-onboarding training Program and Terms & Conditions of the LOI

1. Pre-onboarding Document Verification: Capgemini adheres to a strong document verification.



ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

We are grateful to the Chairman of New Horizon Educational Institution, Dr. Mohan Manghnani for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our Internship.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Ms. ANITHA A**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

VLSI - Capgemini

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

MADHAV REDDY C
1NH19EE067

Under the Guidance of
Asst Prof. Ms. ANITHA A

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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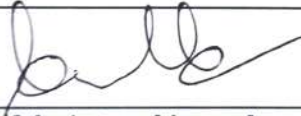

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"VLSI-Capgemini"** carried out by **MADHAV REDDY C**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed or said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Ms. ANITHA A	Dr. Sujitha S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

Dr. Raghu . N.

Tain University

20EEE83A-Internship

DECLARATION

I **MADHAV REDDY C** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**VLSI-Capgemini**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

MADHAV REDDY C

1NH19EE067

CERTIFICATE FROM INDUSTRY/COMPANY



Capgemini Technology Services India Limited
(Formerly known as GATE Global Relocations Limited)
11, 11 T 2, Arol MIDC, Thane - Belapur Road,
Navi Mumbai 400708, Maharashtra, India
Tel: +91 22 7144 4263 | Fax: +91 22 7141 2121
www.capgemini.com/in/en

Superset ID: 2942483

Letter of Intent ("LOI")

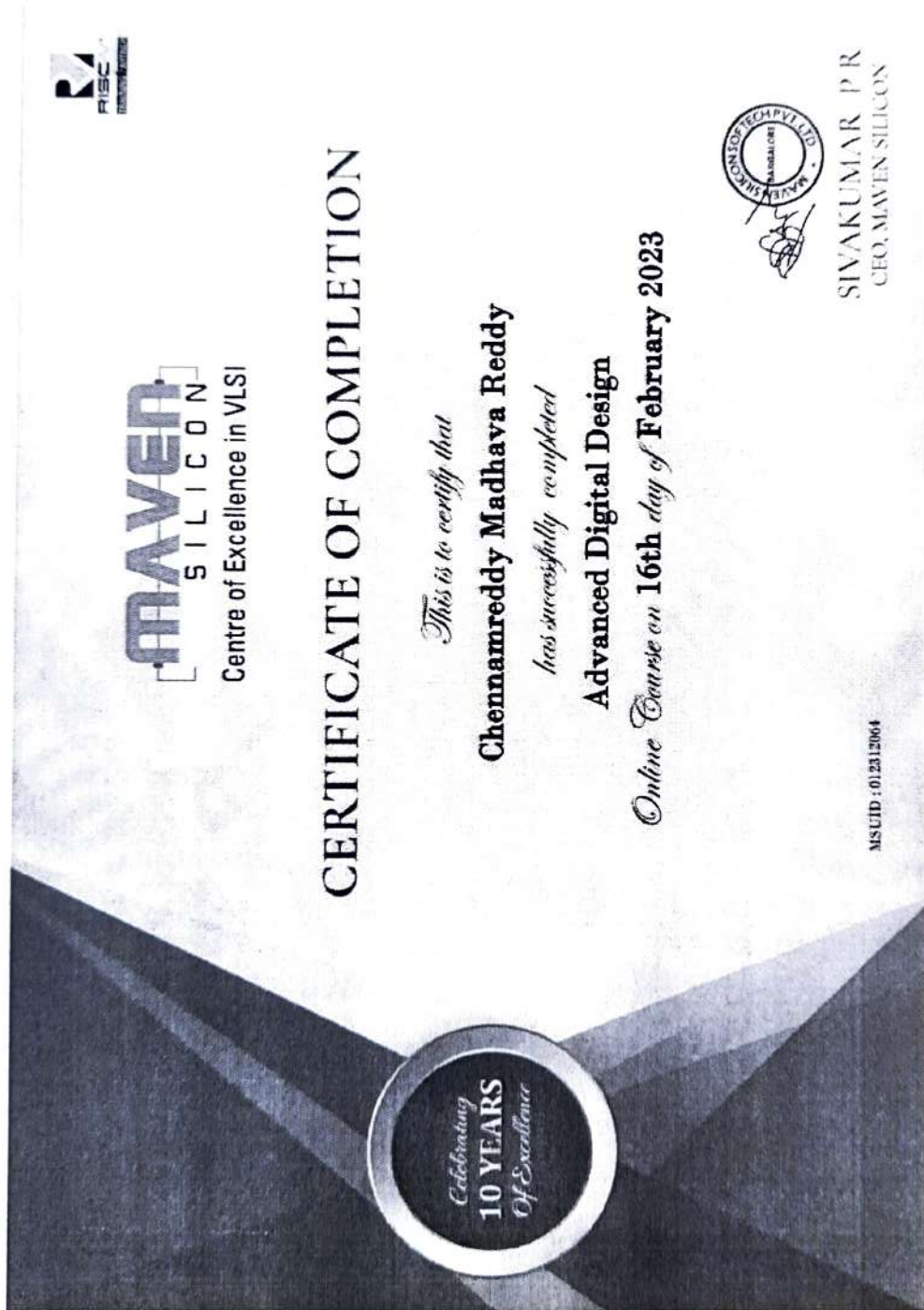
December 18, 2022

Dear Chennamreddy Madhava Reddy,

We are pleased to inform that your candidature has been shortlisted for the position of **Analyst/A4** with **Capgemini Technology Services India Limited** (hereinafter referred to as "Capgemini" or Company). You will be required to participate and complete the pre-onboarding training program assigned and applicable to you as may be communicated by the Company later. Please note that it is essential for you to participate, effectively leverage and successfully complete this program as a prerequisite prior to being onboarded as an employee with Capgemini.

We request you to carefully read and understand the Terms and Conditions of this Letter of Intent with Annexures hereto (hereinafter referred to as LOI).

- A Please note that your name mentioned in this LOI will be used to create your records in Capgemini & the same will be continued for all the communication & Company documentation purpose. In case you need a change in the name; please notify before commencement of training. Please note that no changes to the record can be made later in time. The name provided by you should match with the identification documents submitted to the Company, such as Aadhar Card, PAN card, Passport, etc.
- B We are proposing compensation package and benefits post-onboarding, the details of which are set forth in Annexure 1 to this LOI.
- C Upon accepting this LOI, you will be required to submit a set of documents as mentioned in the Annexure - 2. Thereafter, you will be provided access to our pre-onboarding training program, as applicable. This will enable you to learn and master the concepts and skills required to be industry ready. The pre-onboarding training program can include physical classroom training/ self-paced e-learning/ hybrid model of training. The learning journey will be inclusive of assignments, assessments, hackathons/ competitions, and webinars as deemed appropriate by Capgemini.
- D The progress made by you in this learning journey would not only help you in getting onboarded but also help you to be trained for advanced skills relevant to your career at Capgemini. We also encourage you to learn beyond the prescribed course curriculum and acquire industry recognized certifications to accelerate your career in this competitive industry.
- E Pre-onboarding training Program and Terms & Conditions of the LOI
 1. Pre-onboarding Document Verification: Capgemini adheres to a strong document verification process. As a part of this process all the personal, educational and professional (if



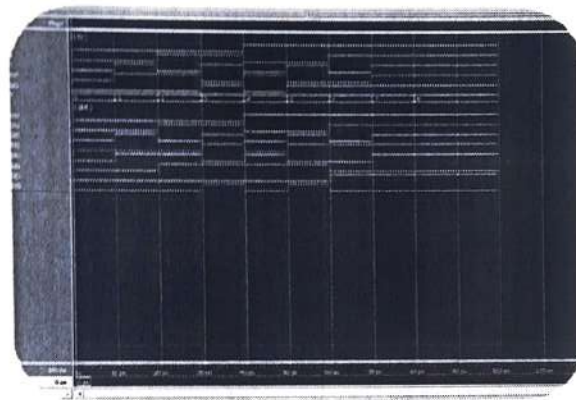
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INTERNSHIP TITLE: VLSI - Capgemini

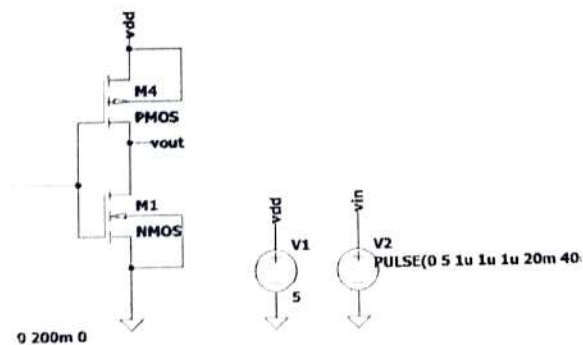
MADHAV REDDY C 1NH19EE067

Under the Guidance of

Asst Prof. Ms. ANITHA A



FULL ADDER IMPLEMENTATION



NOT- GATE SCHEMATIC



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

CDO DOT-NET RPA

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

ANIL HEGDE H

1NH19EE013

Under the Guidance of

Dr VINOTH KUMAR K

Associate Professor, Dept. EEE

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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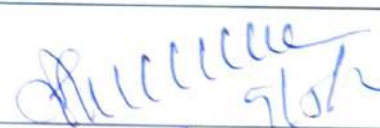
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE


Certified that the internship work entitled " **CDO DOT-NET RPA** " carried out by the name **ANIL HEGDE H (INH19EE013)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfilment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections /suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Dr. Sujitha S Ring Road, Kadubisanahalli, Bellandur, Bengaluru - 560103

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raaghu N
Tain university

20EEE83A-Internship

DECLARATION

I **ANIL HEGDE H** student of New Horizon College of Engineering hereby declare that, this internship work entitled “ **CDO DOT NET RPA** ” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ANIL HEGDE H

1NH19EE013

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S.** Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. VINOTH KUMAR K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skilful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

ANIL HEGDE H (INH19EE013)

CERTIFICATE FROM INDUSTRY/COMPANY



Dear Anil Hegde H,

Greetings from Cognizant!

Congratulations on completing your stage1 learning in Internship program at Cognizant.

We see that you have cleared the assessment and hope to see you put in the same effort and complete your upcoming stages successfully.

Request you to await information regarding further stage(s) of the training schedule from your coach.

All the very best!

Regards,
Human Resources – Cognizant GenC

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: CDO DOT NET RPA DEVELOPER

ANIL HEGDE H (INH19EE013)





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

QUALITY ENGINEER WITH SELENIUM AND JAVA

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**ABHISHEK
1NH19EE003**

Under the Guidance of

Dr. VINOTH KUMAR K

Associate Professor, Dept. EEE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018



2022-23



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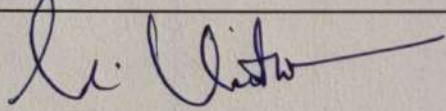
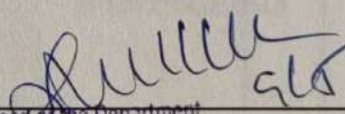
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

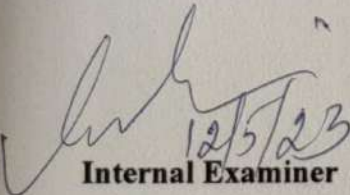
CERTIFICATE

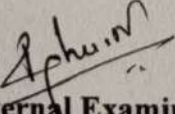
Certified that the internship work entitled **"QUALITY ENGINEER WITH SELENIUM & JAVA"** carried out by ABHISHEK (1NH19EE003), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India Dr. Sujatha S

SEMESTER END EXAMINATION


12/5/23
Internal Examiner

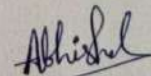

External Examiner
Dr. Raghu.N
Jain university

20EEE83A-Internship

DECLARATION

I **ABHISHEK** student of New Horizon College of Engineering hereby declare that, this internship work entitled "QUALITY ENGINEER WITH SELENIUM & JAVA" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ABHISHEK

1NH19EE003

ACKNOWLEDGEMENT

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We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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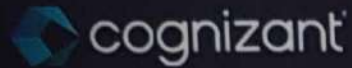
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Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

ABHISHEK

1NH19EE003

CERTIFICATE FROM INDUSTRY/COMPANY



Dear Abhishek Poojary,

Greetings from Cognizant !!

Congratulations on completing your stage1 learning in Internship program at Cognizant.

We see that you have performed well in your assessment and would like to appreciate the passion and professionalism you've exhibited during this period.

We hope to see you put in the same effort and complete your upcoming stages successfully.
All the best !

Regards,
Human Resources – Cognizant GenC Program

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20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: QUALITY ENGINEER WITH SELENIUM & JAVA





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

JAVA DEVELOPER

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**G Krishna Chaitanya
1NH19EE038**

Under the Guidance of
Dr./Prof. Vinoth Kumar K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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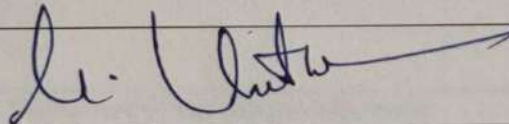
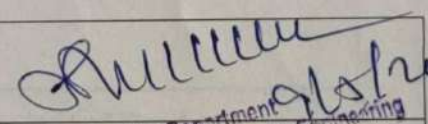
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

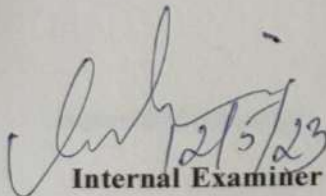
CERTIFICATE

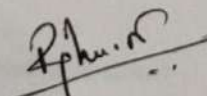
Certified that the internship work entitled **"JAVA DEVELOPER"** carried out by **G Krishna Chaitanya (1NH19EE038)**, a Bonafede student of New Horizon College of Engineering submitted a report in the partial fulfillment for the award of Bachelor of Engineering in the **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of the Head of the Department
Dr. Vinoth Kumar K	Dr. Sujitha S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Bellandur, Bengaluru-560103

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu N
Jain University

20EEE83A-Internship

DECLARATION

I **G Krishna Chaitanya** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**JAVA DEVELOPER**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

G Krishna Chaitanya

1NH19EE038

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. Vinoth Kumar K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Certificate of Internship

This certificate is awarded to

G Krishna Chaithanya

in appreciation for your outstanding accomplishments
as intern at YGK Technologies Pvt Ltd
in Java Developer & Integration Expert
30/01/2023 till 19/04/2023

Given this 15th day of March 2023 at
Bengaluru, Karnataka

A handwritten signature in black ink, appearing to read 'Vivek Nair', is positioned above the printed name and title.

Vivek Nair
Director & Chief Technology Officer

20EEE83A Internship
INTERSHIP IMAGES

INTERSHIP TITLE: JAVA DEVELOPER

STUDENT 1 U MOHAMMED ARSHAD	1NH19EE120
STUDENT 2 ROOPESWAR REDDY	1NH19EE127
STUDENT 3 G KRISHNA CHAITANYA	1NH19EE038
STUDENT 4 MOHAN P	1NH19EE405
STUDENT 5 DEEPAK KUMAR SAH	1NH19EE029
STUDENT 6 KOUSHIK P	1NH19EE403

Under the Guidance of

Dr./Prof. Vinoth Kumar K





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

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Accredited by NAAC with 'A' Grade. Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

KUMAR ABHISHEK

1NH19EE061

Under the Guidance of

Prof. ANITHA A

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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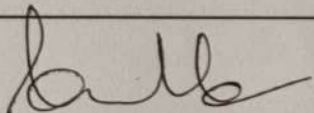
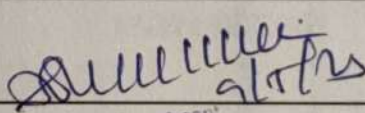
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

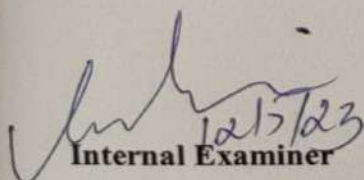
CERTIFICATE

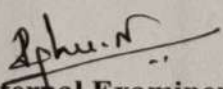
Certified that the internship work entitled **"MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM"** carried out by **KUMAR ABHISHEK (1NH19EE061)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. ANITHA A	Dr. S. S. Srinivas New Horizon College of Engineering Department of Electrical and Electronics Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu. N.
Tain university

20EEE83A-Internship

DECLARATION

I **KUMAR ABHISHEK** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

KUMAR ABHISHEK

1NH19EE061

CERTIFICATE FROM ORGANISATION

DN: L2930PKA2019FTCI30032



02.03.2023

Offer Letter - Internship

Dear Mr. Kumar Abhishek,

This is with reference to your application and the subsequent interview you had with us. We are pleased to offer you the position of "Intern" at our Bangalore factory office on the terms and conditions mutually discussed and agreed.

1. This position is scheduled to begin from March 06, 2023 and will be a six-month paid internship opportunity ending on September 02, 2023.
2. The schedule for this position is Monday to Saturday from 9:00 a.m to 5:30 p.m.
3. This position will pay Stipend of ₹12,500/- (Rupees Twelve Thousand Five Hundred Only) per month.
4. You are requested to submit all the documents listed below at the time of your joining:
 - a) Photocopies of Education Certificates
 - b) Photocopies of Aadhar/Passport indicating name and permanent address
 - c) Present address proof
 - d) Self-attested photocopy of the PAN card
 - e) Details of Bank Account (A/c No., Bank name, IFSC code etc.)
 - f) 2 passport size photographs (The photographs should not be older than 6 months from the date of receipt of this letter)

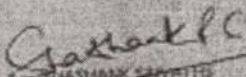
Kindly report for your duties at the following address:

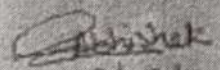
DYNALECTRIC EQUIPMENT PRIVATE LIMITED
Survey No. 49/2, Madamanchanahalli Village,
Kallurahu to Anekal Road,
Jigani (H), Anekal Taluk,
BANGALORE 560105

Kindly send us the duplicate copy duly signed by you, as a token of acceptance of our offer.

With best wishes,

For DYNALECTRIC EQUIPMENT PRIVATE LIMITED


G. LAKSHMI
DIRECTOR


03/03/2023

Dynalectric Equipment Pvt Ltd

Email: info@dynalectric.com Phone: +91(80) 29611999 Website: www.dynalectric.com

Address: Sy. No. 49/2, Madamanchanahalli Village, Kallurahu to Anekal Road, Jigani (H), Anekal Taluk, Bangalore 560105

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. ANITHA A**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: Manufacturing of
Transformers, Reactor and DC Systems**

KUMAR ABHISHEK 1NH19EE061

Under the Guidance of

Prof. ANITHA A





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A Internship

Report on

REMOTE BASED SOLAR MONITORING USING EMBEDDED SYSTEMS

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

DHRUVA S SRINIVAS

1NH19EE032

Under the Guidance of

Dr.Vinoth Kumar K

Associate Professor, Dept. EEE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



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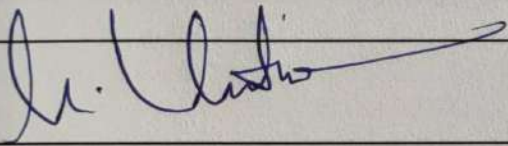
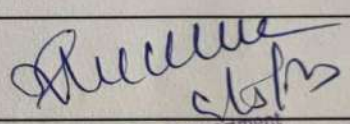
Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

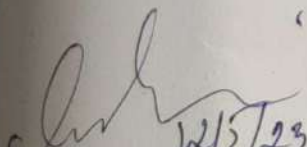
CERTIFICATE

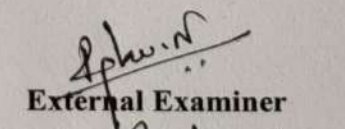
Certified that the Project work entitled “**Remote Based Solar Based Monitoring using Embedded Systems**” carried out by **Dhruva S Srinivas (INH19EE032)** bonafide Student of New Horizon College of Engineering submitted the report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Dr.Sujitha.S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner



External Examiner
Dr. Raghu.N
Jain university

DECLARATION

We Dhruva S Srinivas student of New Horizon College of Engineering hereby declare that this internship project work entitled “**Remote Based Solar Monitoring using Embedded System**” is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of our knowledge and belief, the work reported herein does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.

DHRUVA S SRINIVAS 1NH19EE032

[]

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. Vinoth Kmar K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skilful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

DHRUVA S SRINIVAS

1NH19EE032



TPSSL/HR/INT/2022-23
21st March 2023

CERTIFICATE

This is to certify that Mr. Dhruva S Srinivas from New Horizon Engineering College has carried out his internship in Engineering function. He has carried out a project on "Remote Based Solar Monitoring Systems using Embedded System" in Tata Power Solar Systems Limited, Bangalore between 23-01-2023 to 09-03-2023. He has been actively engaged during the project work, which has been completed online.

We wish Dhruva all success in his future endeavours.

Thanking you,

for TATA POWER SOLAR SYSTEMS LTD.

Agnes Charles
Lead Associate - Business HR

TATA POWER SOLAR

Tata Power Solar Systems Limited

78 Electronics City Phase I Hosur Road Bengaluru 560100 India
CIN U40106KA1989PLC034989 Tel : +91 80 6777 2200 Fax : +91 80 6777 2252
Email : info.solar@tatapower.com Website : www.tatapowersolar.com



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

“DECIBEL INTERN PROGRAM”

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

DARSHAN R

1NH19EE030

Under the Guidance of

Mr. KODANDAPANI DEPA

(Snr.asst.professor)

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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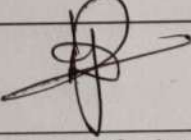
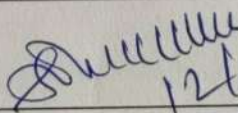
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

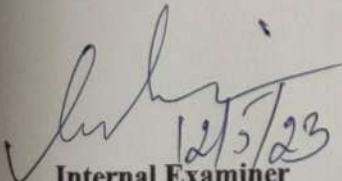
CERTIFICATE

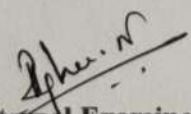
Certified that the internship work entitled **"DECIBEL INTERN PROGRAM"** carried out by **DARSHAN R (1NH19EE030)**, bona-fide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	 12/5/2023
Name & Signature of the internship workGuide	Name & Signature of Head of the Department
Mr. KODANDAPANI DEPA	Dr. SUJITHA S New Horizon College of Engineering Department of Electrical and Electronics Engineering Ring Road, Kadubisanahalli, Bellandur Post Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu. N
Jain university

20EEE83A-Internship

DECLARATION

I **DARSHAN R** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**DECIBEL INTERN PROGRAM**" is an original and bona-fidework carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

DARSHAN R

1NH19EE030

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **MR. KODANDAPANI DEPA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A-Internship

CERTIFICATE FROM INDUSTRY/COMPANY



DECIBEL ENGINEERING
SYSTEMS AND ASSOCIATES

Date: 24 /04/2023

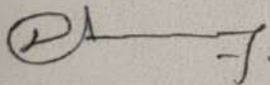
CERTIFICATE

This is to certify that **Mr. DARSHAN R, [USN 1NH19EE030]** pursuing BE Electrical and Electronics Engineering at "New Horizon College of Engineering" has successfully completed his Internship in our organization from **15/02/2023 to 20/04/2023**.

During internship his work ethics and conduct was found Satisfactory.

We wish him all the best for his future endeavors.

For DECIBEL ENGINEERING SYSTEMS AND ASSOCIATES


(NAGESHA D A)





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

AUTOMATION ENGINEER

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**VIJAY METI
1NH20EE410**

Under the Guidance of

Dr.AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade. Accredited by NBA

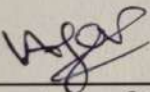
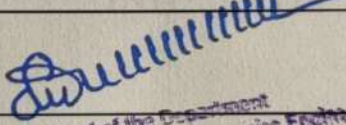
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

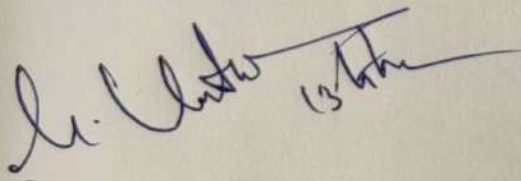
CERTIFICATE

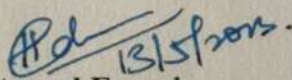
Certified that the internship work entitled **"AUTOMATION ENGINEER"** carried out by **VIJAY METI (1NH20EE410)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Agalya V	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru-560103, Karnataka, India Dr. Srinivas

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

20EEE83A-Internship

DECLARATION

I **VIJAY METI** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**AUTOMATION ENGINEER**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

V. V. Meti
VIJAY METI

1NH20EE410

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

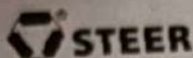
I express my warm thanks to my project guide **Dr. AGALYA V**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



STEER Engineering Private Limited

SEPL/CHR/TA/IN/04

27th December, 2022

Vijay Meti

No. 75, 7th Cross, near BIPS School,
Vidyagiri, Bagalkot - 587102

Subject: Internship Letter

Dear Vijay,

With reference to your application and the subsequent interview you had with us we would like to congratulate you on being selected for the Internship Programme. We are excited that you will be joining our team!

The details and deliverables regarding your job profile will be described on your orientation day and you will work with multiple teams to gain cross functional knowledge and your expertise and skills will be utilized by the company based on business demands and objectives.

Internship will be effective from 09th January, 2023 to 8th July, 2023 you are expected to work from 9.00 am to 6.00 pm from Monday to Saturday and expected to report to your college on 2nd & 4th Saturdays for academic purposes. You will be granted one week leave during your exams.

You will receive a monthly stipend of INR 10,000/- during your internship period.

Upon successful completion of your internship based on your performance during this period, you will be offered as Graduate Engineer Trainee, Band Zeta, Level L1 A with an annual fixed compensation of INR 4,20,000/-.

A formal letter of Offer of employment will be issued to you on 10th July, 2023 and you would be expected to join as a full time employee on the said date, subject to above criteria & subject to you completing your Engineering Degree.

The terms of this internship followed by employment will be governed by the training indemnity signed by you on 2nd December, 2022 attached here with for your reference.

During your internship, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this internship, you acknowledge that you must keep all this information strictly confidential, and refrain from using it for your own purposes or from disclosing it to anyone outside the Company.

By accepting this letter, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and interns, including our policies prohibiting discrimination and harassment. I hope that your association with the Company will be successful and rewarding.

For STEER Engineering Private Limited

Accepted By: Vijay Meti

B. E. Anand
Anand B.E.
Chief Human Resources Officer

V. V. Meti
Signature 4/01/2023

#290, 4th Main, 4th Phase Peenya Industrial Area, Bangalore - 560 058, India
Phone: +91 80 23723309 / 10, 42723300, Fax: 91 80 23723307
E-mail: info@steerworld.com, Website: www.steerworld.com

AN ISO 9001 & ISO 14001 COMPANY

CIN - U05190KA1993PTC015303

STEER A NEW WORLD

20EEE83A Internship

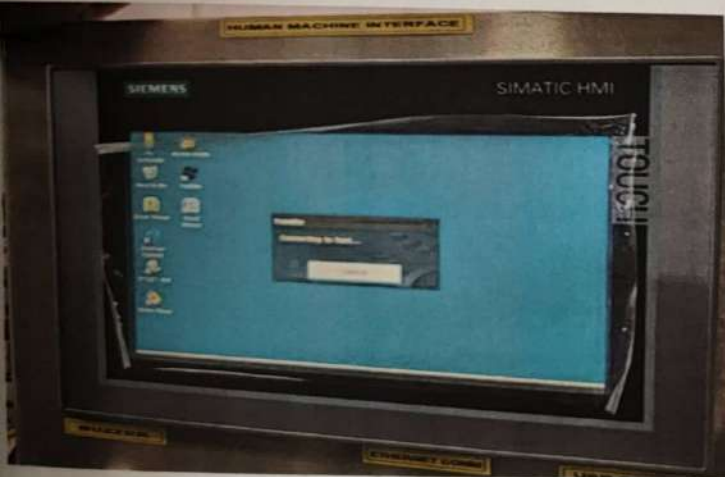
INTERNSHIP IMAGES

INTERNSHIP TITLE: AUTOMATION ENGINEER

VIJAY METI

1NH20EE410

Under the Guidance of
Dr.AGALYA V





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

FIRE CONTROL PANEL BOARD WIRING

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

NANDAN D SALANKE

1NH20EE406

Under the Guidance of

Dr. AGALYA V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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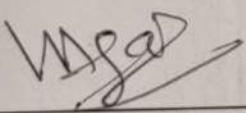

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

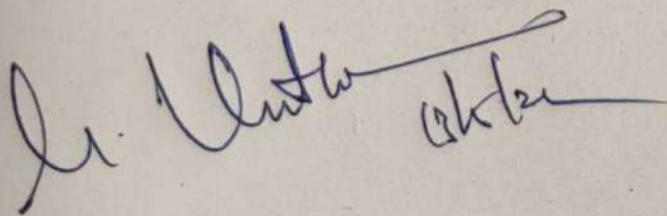
CERTIFICATE

Certified that the internship work entitled **"FIRE CONTROL PANEL BOARD WIRING"** carried out by **NANDAN D SALANKE (1NH20EE406)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

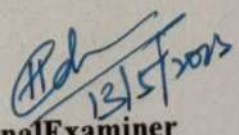
It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Agalya V	Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisur, Bellandur, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION



Internal Examiner



External Examiner

DECLARATION

I **NANDAN D SALANKE** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**FIRE CONTROL PANEL BOARD WIRING**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University,Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Nandan
NANDAN D SALANKE

1NH20EE406

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr.AGALYA V**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co- operation the completion of Internship would not have been possible.

NANDAN D SALANKE

1NH20EE406

CERTIFICATE FROM INDUSTRY/COMPANY

GSTIN:29AA0FV3613L1ZL

Mob: 9741356678



Vigneshwara Industries

Mfd. Fire Control Panel & Fabrication

58, 17th Cross, Near, Nadakerappa Industrial, Vinayaka Nagar, Andrahalli Main Road,
Bangalore - 560091. E-Mail: vigneshwaraindustries16@gmail.com

Date: 27/04/2023

INTERNSHIP COMPLETION CERTIFICATE

We are glad to inform you that Mr. Nandan D Salanke from New Horizon College of Engineering has successfully completed his internship at Vigneshwara Industries. From 26 Feb 2023 - 25 Apr 2023.

During his Internship, he was exposed to the various activities in Fire Panel Board Wiring.

We found him extremely inquisitive and hard working. He is very much interested to learn the functions of our core division and also willing to put his best efforts and get in to the depth of the subject to understand it better.

His association with us was very faithful and we wish him all the best in his future endeavors.

For Vigneshwara Industries

VIGNESHWARA INDUSTRIES
58, 17th Cross,
Near Nadkerappa Indl. Estate,
Vinayaka Nagar, Andrahalli
Main Road, BANGALORE-560091.
Authorized Signatory

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: FIRE CONTROL PANEL BOARD WIRING

STUDENT 1 NANDAN D SALANKE 1NH20EE406

Under the Guidance of

Dr.AGALYA V





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

CAPGEMINI VLSI INTERNSHIP

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Faraz Ahmed Mulla

USN: 1NH18EE014

Guided by

Prof. Kavitha Chenna Reddy

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**CAPGEMINI VLSI INTERNSHIP**" carried out by **FARAZ AHMED MULLA (1NH18EE014)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraya Technological University, Belgaum during the Year 2022-23

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

KAVITHA CHENNA REDDY (Ch. Karthi)	Dr. S. SUTHA
--------------------------------------	------------------

SEMESTER END EXAMINATION

Internal Examiner

13/5/2023
External Examiner


DECLARATION

I **Faraz Ahmed Mulla** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**CAPGEMINI VLSI INTERNSHIP**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

FARAZ AHMED MULLA

1NH18EE014



CERTIFICATE OF RECOGNITION

This certificate is awarded to

Faraz Ahmed Mulla

For participating in the VLSI Phase 1 Training
conducted from the month of January - March 2023

Murali Krishna Pulamarasettybala

MURALI KRISHNA PULAMARASETTYBALA

Vice President

Prasad Shetye

PRASAD SHETYE

Executive Vice President

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

We are grateful to the Chairman of New Horizon Educational Institution, Dr. Mohan Manghnani for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our Internship.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **KAVITHA CHENNA REDDY**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

FARAZ AHMED MULLA
1NH18EE014



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

VLSI training under Capgemini

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Tabasum Manzoor

1NH19EE114

Under the Guidance of

Ms. Soumya K V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"VLSI Training under Capgemini"** carried out by **TABASUM MANZOOR (INH19EE114)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Ms. Soumya K V 	 Dr. Sujitha S

SEMESTER END EXAMINATION


13/5/2023

Internal Examiner


13/5/2023
External Examiner

DECLARATION

I **TABASUM MANZOOR** student of New Horizon College of Engineering hereby declare that, this internship work entitled “VLSI Training under Capgemini” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Tabasum
TABASUM MANZOOR

1NH19EE114

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, Dr. MOHAN MANGHNANI for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, Dr. MANJUNATHA for motivating us to carry out research in the NHCE and Dr. SUJITHA S, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide Prof. Ms. Soumya K V., Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

Tabasum
TABASUM MANZOOR
INH19EE114

CERTIFICATE FROM INDUSTRY/COMPANY

Capgemini 

CERTIFICATE OF RECOGNITION

This certificate is awarded to

Tabasum Manzoor

For participating in the VLSI Phase 1 Training
conducted from the month of January - March 2023

Marali Krishna Palamarasettybala

MURALI KRISHNA PULAMARASETTYBALA

Vice President

Prasad Shetye

PRASAD SHETYE

Executive Vice President

INTERNSHIP IMAGES

INTERNSHIP TITLE: VLSI Training under Capgemini

Under the Guidance of
Ms. Soumya K V



Figure 1 - Attending the online training and course

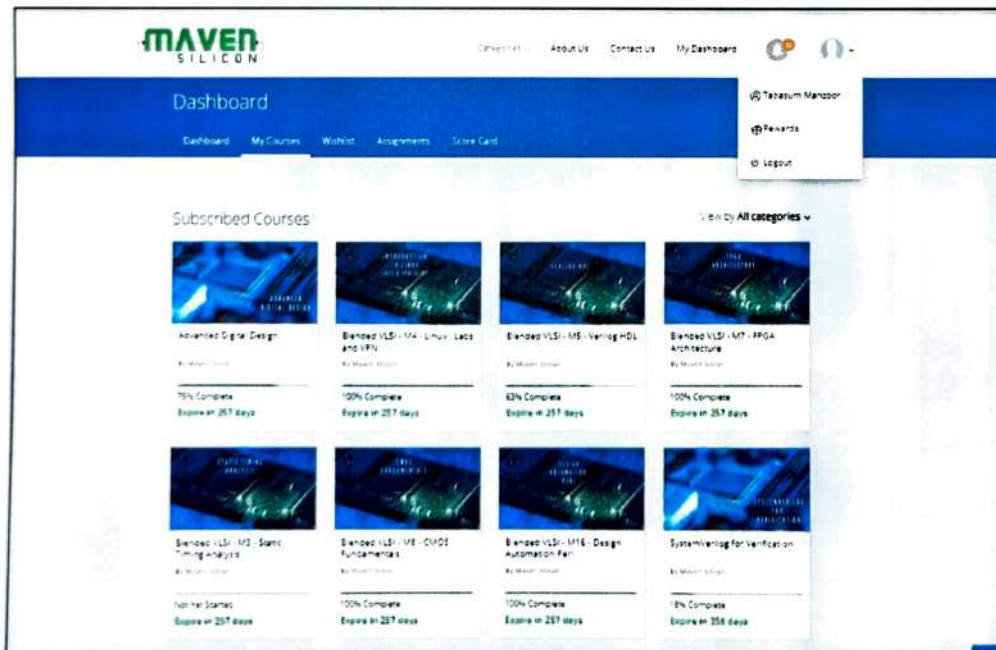


Figure 2 - Online Courses by Maven Silicon



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

PLASTIC PROCESSING

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

SANSKRITI AGARWALLA
1NH19EE097

Under the Guidance of
Prof. Soumya K V

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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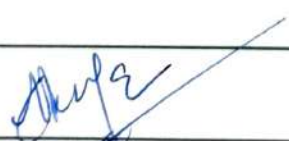

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the internship work entitled "**PLASTIC PROCESSING**" carried out by **SANSKRITI AGARWALLA (INH19EE097)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Soumya K V 	 Dr. Sujatha S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **SANSKRITI AGARWALLA** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**PLASTIC PROCESSING**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bangalore in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University ,Belgaum .

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



SANSKRITI AGARWALLA

1NH19EE097

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **SANSKRITI AGARWALLA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

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Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



POLYMER INDUSTRIES

Manufacturers: Water Pouch's Plastic Rolls, Pouch Packing's Printing Roll and Bag
Rotogravure and Flexo Printing with Lamination Multilayer Poly film, H D P E Woven
sack Bag, P P L O H M Bags and Tarpolene. E-mail: pinakin19@rediffmail.com

Ph: (02642) 247424
telefax: 240514

A-1-148/3 G I D C IND. ESTATE, PHASE-2 BEHIND MIPCO INDUSTRIES, HARMADA NAGAR, BHARUCH

Dear Sanskriti Agarwalla

This is to certify that Ms Sanskriti Agarwalla from New Horizon College of Engineering Bangalore has successfully completed her internship at Polymer Industries Gujarat from 25th January to 20th April.

During the internship program, Ms Sanskriti Agarwalla successfully delivered knowledge about Rotogravure and Flexo printing with Lamination Multilayer Poly Film, thought leadership, analytical thinking and efficient managerial skills.

Her problem-solving approach and ability to learn and adopt has made her a valuable resource to our organization.

We wish her the very best for her future endeavors.

Regards,

For Polymer Industries

Partner/Manager

Pinakin J. Solanki - Director

Polymer Industries (Bharuch) Gujarat

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: “PLASTIC PROCESSING”

**SANSKRITI AGARWALLA
1NH19EE097**

Under the Guidance of

Prof. Soumya K V



PLASTIC PROCESSING





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

ANALYSING ON BUSINESS

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

P. Sindhu

1NH19EE083

Under the Guidance of

Prof. Manochitra

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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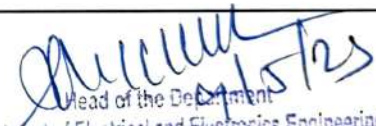
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"Analyzing on Business"** carried out by P. Sindhu (INH19EE083), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library .The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Manochitra	Dr. Sujitha.S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

20EEE83A-Internship

DECLARATION

I **P. Sindhu** of New Horizon College of Engineering hereby declare that, this internship work entitled "**ANALYSING ON BUSINESS**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



P. Sindhu

1NH19EE083

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide Prof.**Manochitra**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skill fulguidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



HayStack Marketing Services Pvt Ltd

78/5, 2nd Floor, 1st Cross, 12th Main, HAL, 2nd Stage,
Indira Nagar, Bengaluru, Karnataka - 560008

CONTACT : 081 2789994211 / 9777064111

03rd April 2023

To Whoever it may concern

This is to certify that Sindhu Passavula from New Horizon College of Engineering has successfully completed her Internship at Haystack Marketing Services Pvt. Ltd. (The Media Ant, Bangalore) from 15th February 2023 to 03rd April 2023.

During her internship with Account Management team, she assisted on Lead Generating project which helped in increasing leads & business for agency category, increase our penetration in Tier 2 markets & onboarded multiple clients.

We wish her all the best for her future endeavours.

Warm Regards,


Ankita Bhattacharya



Manager - HR

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: "ANALYSING BUSINESS"

P. Sindhu 1NH19EE083

Under the Guidance of
Prof . Manochitra





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

INDUSTRIAL AUTOMATION INTERN

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**SOWMYA SHREE
1NH19EE107**

Under the Guidance of
Prof. VINOD KUMAR S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the internship work entitled "**INDUSTRIAL AUTOMATION INTERN**" carried out by **SOWMYA SHREE (1NH19EE107)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 2/1/23	 9/1/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Vinod Kumar S	Dr. Sujitha S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


13/5/2023
Internal Examiner



13/5/2023
External Examiner

20EEE83A-Internship

DECLARATION

I **SOWMYA SHREE** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**INDUSTRIAL AUTOMATION INTERN**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.


SOWMYA SHREE
1NH19EE107

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide Prof. **VINOD KUMAR S**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time. I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship. Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.



SOWMYA SHREE

1NH19EE107

CERTIFICATE FROM INDUSTRY/COMPANY



NEWLINE
ENGINEERS AND DESIGNERS

919, First Floor, Kembathahalli Main Road,
1st Cross, 2nd Main, Gottigere P.O
Bannerghatta Road, Bangalore - 560 083.
Mob : 9986222032, 8904334810

INTERNSHIP COMPLETION LETTER

TO WHOMSOEVER IT MAY CONCERN

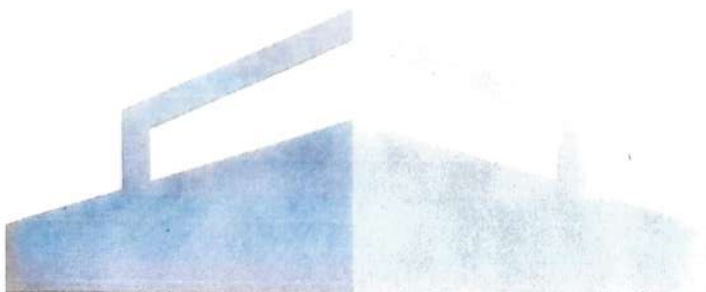
This is to certify that Ms. Sowmya Shree from New Horizon College of Engineering, Bengaluru has successfully completed the internship at Newline Engineers and Designers, Bengaluru as an '**Industrial Automation Intern**' from **9th January 2023 to 31st March 2023**. This internship was observed and assessed by our **Automation Machinery Manufacturing** team and can be claimed towards academic requirements and credits.

During the internship program, Ms. Sowmya Shree has successfully delivered Control panel design and assembly for Industrial Machineries and their maintenance by demonstrating efficient technical process, analytical thinking, excellent leadership, and managerial skills. Her time-management skills and problem-solving approach has made her a valuable resource to our organization.

We wish her the very best for her future endeavours.

Regards,

Latha J - Manufacturing Supervisor
Newline Engineers and Designers
Email: automation.newline@gmail.com
Contact: +91 9738210142



☎ 080-42183456

✉ newline.engg@gmail.com

🌐 www.newlineengineers.com



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83-Internship

Report on

**“ANALYSIS ON SUPFINA FINE GRINDING MACHINE
AND THE COMPUTER VISION”**

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

YASHVANTHA P

1NH18EE407

Under the Guidance of

Prof. MANOCHITRA G

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING.

CERTIFICATE

Certified that the internship work entitled "**ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION**" carried out by **YASHVANTHA P (1NH18EE407)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Ms Manochitra G	Dr.Sujitha.S

SEMESTER END EXAMINATION


Internal Examiner



External Examiner

EEE83-Internship

DECLARATION

I **YASHVANTHA P** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


YASHVANTHA P
1NH18EE407

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Ms MANOCHITRA G**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

ABSTRACT

An ideal solution is the result of constant interaction and development. We know this as well as our customers do, which is why Supfina's corporate philosophy is based on an integrated approach. This means combining traditional knowledge and experience with high technology and uncompromising customer service.

Supfina Grieshaber conducts targeted research and combines many years of experience in the field of superfinishing and grinding as well as automation with knowledge of upstream and downstream processes.

As a system supplier, we offer you complete solutions from one source. We develop the right professional solution for every requirement. This allows you to react quickly to changing customer requirements and strengthen your own market position. Our systems are supplemented by a comprehensive, digitally supported service to ensure that as a customer, you can continue to rely on Supfina at all times. Supfina Grieshaber is your reliable partner worldwide when it comes to implementing economical machining solutions for the highest demands – both today and into the future!

CERTIFICATE FROM INDUSTRY/COMPANY



BOSCH

BOSCH LIMITED
NO.42, II Phase, Sector 2,
KIADB Industrial Area,
Shamanna, Bidadi Hobli,
Ramanagara Dist. 562 109
www.boschindia.com

Tel:
Fax:

Our Ref: Bid P1/TCT-INF/PR 02/2023

Your Ref: Date

Date: 01-03-2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Yashvantha P| pursuing BE in Electrical & Electronics Engineering 8th Semester from New Horizon College of Engineering, Bangalore, has successfully completed the INTERNSHIP at BOSCH Limited, Bidadi location, during the period of 07.01.2023 to 28.02.2023.

We wish him all the best in future endeavors.

For BOSCH LIMITED


- Seetharama. G.
Manager
Training & Development


PL. Muttan
General Manager
(Human Resource)

EEE83 Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION

YASHVANTHA P

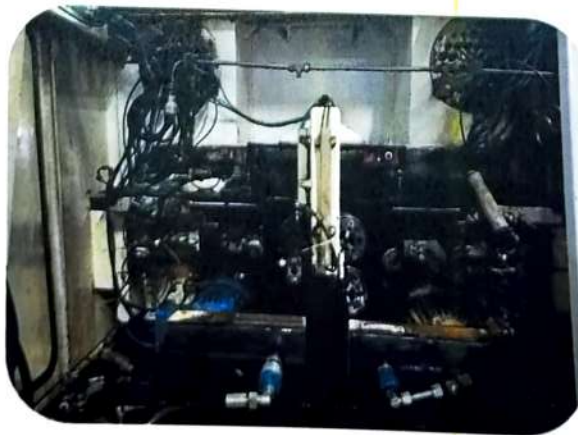
1NH18EE407

Under the Guidance of

Ms Manochitra G



SUFINA OUTSIDE BODY



GRINDING SECTION



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A

Internship Report

on

DATA ANALYST

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

J Prajwal 1NH19EE048

Under the Guidance of

Prof. Kavitha Chenna Reddy

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



NEW HORIZON COLLEGE OF ENGINEERING


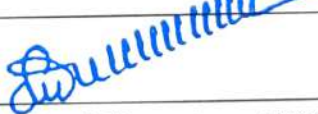
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Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE


Certified that the internship work entitled **"Technology consulting"** carried out by **J Prajwal (INH19EE048)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name And Signature Of Internship Guide	Name And Signature Of HOD
Kavitha Chenna Reddy	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **J Prajwal** of register number 1NH19EE048, student of New Horizon College of Engineering hereby declare that the internship report entitled “**Technology consulting**” submitted by me, in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23 is a record of Bonafide work carried out by me under the supervision of Mr. Ayush Agarwal.

I further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



J Prajwal (1NH19EE048)

ACKNOWLEDGMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

It is my pleasure to express with deep sense of gratitude to Mr. Ayush Agarwal . for his constant guidance, continual encouragement, understanding more than all, he taught me patience in my endeavor. My association with him is not confined to academics only, but it is a great opportunity on my part of work with an intellectual and expert in the field of Power Electronics.

I would like to express my immense gratitude to our principal, Dr. MANJUNATHA and Dr. SUJITHA S, Head of the department for their constant support and motivation that has encouraged me to come up with this project and for providing the right ambiance for carrying out the work and the facilities provided to me.

I express my warm thanks to my internship guide KAVITHA CHENNA REDDY, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship on time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support during the Internship Period. I would like to thank my parents for supporting and helping in the completion of the Internship. Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.



J Prajwal (1NH19EE048)

INTERNSHIP OFFER



Ernst & Young LLP
16 City - 6th Floor, Canberra Block No. 24
Vittal Mallya Road, Bangalore - 560001

01 Feb 2023

Mr. Prajwal J
#1088, 7th Ward, Basaveshwara Nagara,
Kottur Bellary - 583134

Dear Prajwal

Sub: Project Training

We are pleased to offer you Project training in **Technology Consulting** so as to facilitate you to acquire requisite degree of proficiency, competency and work knowledge.

Duration	20 February 2023 - 30 June 2023
Service Line	Technology Consulting
Stipend	21,200 per month
Project Location	Bangalore
Project Mentor	Ayush Agarwal

Your Project Mentor will brief you on your Project when you join.

At the Project Location city, you are expected to make your own accommodation and travel arrangements to and from your place of work.

Your working hours will be as per those of the client or as per the office as the case may be. You will not be entitled to any benefits and allowances as applicable to the employees of the Company/Firm. However, the period of training may further be extended if deemed necessary at the sole discretion of the Company/Firm. Your current engagement is only in the capacity of a trainee and shall not be construed to be an employment. Moreover, the current training shall not enable you to claim permanent employment with either **Ernst & Young LLP**, or the client.

Looking forward to having you with us, and hope you have a rewarding and challenging experience with Ernst & Young LLP.

Please sign and return to us the duplicate copy of this letter in token of your acceptance.

Yours faithfully
For **Ernst & Young LLP**,


Anshula Verma
Authorised Signatory

Signed


Prajwal J

Date


02/02/2023



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

SWITCH GEARS

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

BINAY KUMAR YADAV

1NH20EE401

Under the Guidance of

Prof. Manochitra G

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

Certified that the internship work entitled "Switchgears" carried out by **Binay kumar yadav** (1NH20EE401), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Ms. Manochitra G	New Horizon College of Engineering Ring Road, Marathalli, Bellandur Post. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I Binay kumar yadav student of New Horizon College of Engineering hereby declare that, this internship work entitled "switchgear" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

BINAY KUMAR YADAV



1NH20EE401

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. Mohan MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Manochitra G**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



ACTIO SERVICES PROVIDER PRIVATE LIMITED
Info@actio.org.in www.actio.org.in

Strictly Private and Confidential

Offer Letter

To

Mr. Binay Kumar Yadav

Dear Binay Kumar Yadav,

We are pleased to offer you the position of **Electrical Engineer** at Actio Services Provider Private Limited location with effect from 10th January 2023 on the following terms and conditions. Your work location would be Bangalore.

TERMS & CONDITIONS:

- Below are the monthly take home salary, incentives, and other benefits details:

MONTHLY TAKE HOME SALARY & INCENTIVE SLAB

- Monthly Take Home Salary: You will be paid a take home salary of INR 10000/-

Monthly Target: - 40 active employees every month

Above 40- 50 INR 1000 as Incentive

Above 50-60 INR 2000 as Incentive

Above 60 INR 5000 as Incentive

PAY & VARIABLE PAY SLAB		
Sl No	Closers	Incentive (Rs)
1	10	1500
2	20	3000
3	30	4000
4	40	5000

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: SWITCHGEARS

BINAY KUMAR YADAV 1NH20EE401

Under the Guidance of

Asst. Prof Manochitra G



FIBER LASER CUTTING MACHINE



MOLDING MACHINE



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A

Internship Report

on

Electric Vehicle Drive, MPPT Drive And DC Lamp Control

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

M GOPAL 1NH19EE065

Under the Guidance of

Prof. Kavitha Chenna Reddy

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



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Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled **"POWER ELECTRONICS ENGINEER"** carried out by **M GOPAL (INH19EE065)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name And Signature Of Internship Guide	Name And Signature Of HOD
Kavitha Chenna Reddy	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **M Gopal** of register number INH19EE065, student of New Horizon College of Engineering hereby declare that the internship report entitled “**Electric Vehicle Drive, MPPT Drive And DC Lamp Control**” submitted by me, in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23 is a record of Bonafide work carried out by me under the supervision of Mr. Ganganna Sudhakar, Director Of Amberroot Systems Pvt Ltd.

I further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



M GOPAL(INH19EE065)

ACKNOWLEDGMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

It is my pleasure to express with deep sense of gratitude to Mr. GANGANNA SUDHAKAR, Director Of Amberroot Systems Pvt Ltd. for his constant guidance, continual encouragement, understanding more than all, he taught me patience in my endeavor. My association with him is not confined to academics only, but it is a great opportunity on my part of work with an intellectual and expert in the field of Power Electronics.

I would like to express my immense gratitude to our principal, Dr. MANJUNATHA and Dr. SUJITHA S, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambiance for carrying out the work and the facilities provided to me.

I express my warm thanks to my internship guide KAVITHA CHENNA REDDY, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship on time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support during the Internship Period. I would like to thank my parents for supporting and helping in the completion of the Internship. Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

M GOPAL(1NH19EE065)

INTERNSHIP COMPLETION CERTIFICATE

amberroot
Amberroot Systems Private Limited
| #251/252, 3rd Cross road, 3rd Main road, JP Nagar III Phase, Bangalore 560078 |
| Registered Address #1 Gunasheel Layout, JP Nagar V Phase, Bangalore 560078 |
| <http://www.amberroot.com> | info@amberroot.com | Ph: +91 (80) 26588022 | CIN # U72200KA2009PTC049532 |

Date: 17th.April.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Gopal A Manickam from New Horizon College of Engineering, Electrical and Electronics Department has completed his internship with our company from 16.Jan.2023 to 17.April.2023. During his course of internship, he was found to be hard working and sincere on the assignments given to him. We wish him great success in his future endeavours.

Yours Sincerely,

For AMBERROOT SYSTEMS PRIVATE LIMITED

For AMBERROOT SYSTEMS PVT LTD.



Authorised Signatory

Ganganna Sudhakar

Director



NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road , Bellandur , Bengaluru_560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRAINING AT RECEIVING STATION 33/11KV BUDGAM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

MUNTAZIR ABID

1NH19EE076

Under the Guidance of

Asst.prof: MANOCHITRA G

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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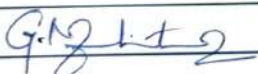

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**Training at receiving station 33/11kv BUDGAM**" carried out by **MUNTAZIR ABID(1NH19EE076)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department
	
Asst.Prof: MANOCHITRA G	Dr. SUJITHA S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisiddahalli, Bellandur P.O. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

DECLARATION

I **MUNTAZIR ABID** student of New Horizon College of Engineering hereby declare that, this internship work entitled **“Training at receiving station 33/11kv Budgam Kashmir”** Is an original and bonafide work carried out by me at NEW HORIZON COLLEGE OF ENGINEERING ,BENGALURU in partial fulfilment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not from part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



MUNTAZIR ABID

1NH19EE076

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Asst.Prof. MANOCHITRA G**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

TRAINING CERTIFICATE.

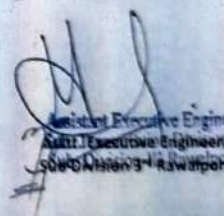
This is to certify that Muntazir Abid a student of B.E (Electrical and Electronics Engineering of New Horizon College of engineering bearing university USN NO. 1NH19EE076 underwent Practical Training at R/stn (2x10+6.3 MVA) -33/11KV Budgam w.e.f 14th Jan 2023 to 1st March 2023

During the training period the student got familiarized with the functions of various equipments at the substation and also acquainted the knowledge of operation and maintenance of these equipments. The student also got a brief understanding of power network of the valley in general and central Kashmir in particular. invaluable exposure and confidence to the student in future.

Work and Conduct of the student during the training period remained satisfactory.

No. SD³/1- 1009

Dated/- 01-03-2023.


Assistant Executive Engineer
Sub-Division 3 - Rawapora

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: Training at receiving station 33/11kv Budgam Kashmir

MUNTAZIR ABID 1NH19EE076

Under the Guidance of

Asst.Prof. MANOCHITRA G





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

**Report on
Line Replacement Units of
Advance Light Helicopters**

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**R VARUN
1NH19EE090**

Under the Guidance of
Dr R MOHAN DAS

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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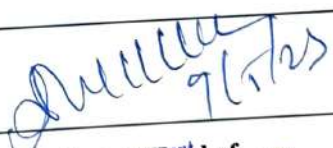
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**Line Replacement Units of Advanced Light Helicopters**" carried out by **R VARUN (INH19EE090)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. R MOHAN DAS	Dr. SURESH K S Head of the Department of Electrical and Electronics Engineering Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kathur, Marathalli, Bellandur P... Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION

Internal Examiner

Dr. R. Mohan Das

External Examiner

Dr. Raghun N
Jain University

20EEE83A-Internship

DECLARATION

I **R VARUN** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Line Replacement Units of Advanced Light Helicopters**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

R VARUN
1NH19EE090

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide, , Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

ಹೆಲಿಕಾಪ್ಟರ್ - ಎಂಟರ್ಪ್ರೈಸ್ ವಿಭಾಗ
ಹೆಲಿಕಾಪ್ಟರ್ ಎಂ ಆರ್ ಆರ್ ಪ್ರಭಾಗ
ಹೆಲಿಕಾಪ್ಟರ್ ಸಂರಕ್ಷಣೆ/ಹೆಲಿಕಾಪ್ಟರ್ ಕಾಂಪ್ಲೆಕ್ಸ್
ಹಿಂದೂಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಪೋಸ್ಟ್ ಬಾಕ್ ನಂ. 1796, ವಿಮಾನಪುರ ಪೋಸ್ಟ್
ಬೆಂಗಳೂರು - 560 017, ಭಾರತ
Fax (ಬೆಂಗಳೂರು) : 91 - 80 - 2231 4354



HELICOPTER - MRO DIVISION
HELICOPTER COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Post Box - No.1796, Vimanapura Post
Bengaluru - 560 017, India
Ph. (ಬೆಂಗಳೂರು) : 91 - 80 - 2232 3231

हिन्दी बढेगी तभी जब चाहेगे सभी

MRO-H/(HR)/073/23

March 25, 2023

CERTIFICATE

This is to certify that Mr. R. Varun, USN No. 1NM19EE090, student of New Horizon College of Engineering, Bangalore, has undergone Industrial Training in HAL - Helicopter MRO Division from 20.02.2023 to 25.03.2023.

During this period his performance was good.

We wish him a bright future.

For HAL-Helicopter-MRO Division

(SWARNA M V)

SENIOR MANAGER (HR)-MRO



ಹಿಂದೂಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್ : ೧೫/೧, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ
पंजीकृत कार्यालय : 15/1, कबुन रोड, बेंगलूर - 560 001, भारत
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
CIN: L35301KA1963GOI001622



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**DANAMMA TODALABAGI
1NH20EE402**

Under the Guidance of

**Mr. D. Mohan Raj (IRSEE)
Deputy General Manager
E&M Dept., BMRCL**

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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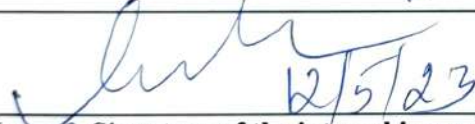

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE


Certified that the internship work entitled **"Traction and E&M system"** carried out by **DANAMMA TODALABAGI** (1NH20EE402), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 12/5/23	 12/5/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. B. Gunapriya	Dr. Sujitha S.

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu N
Jain University

DECLARATION

I **DANAMMA TODALABAGI** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Traction and E&M system**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



DANAMMA TODALABAGI

INH20EE402

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **D. MOHAN RAJ**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

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Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM ORGANISATION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. DANAMMA TODALABAGI** (1NH20EE402) of **BE (EEE)** final semester student from **New Horizon college of Engineering Bangalore-560103**, has done internship at Byappanahali Depot, **Bangalore Metro Rail Corp Ltd (BMRCL)**, **Bangalore-560038**, from 07.03.2023 to 20.04.2023. Under Traction and E&M department as an Internship Trainee.

She has worked on a project titled **Traction and E&M system**. This project was aimed at up gradation of her knowledge & Skilled on industrial training. As part of the project, she has done her Internship for her future betterment & development studies of Green Modern Electric Transport System.

During internship she has demonstrated her skills with self-motivation to learn new technology. Her performance exceeded our expectations and she was able to complete the project on time.

We wish all the best for her upcoming career.


D. Mohan Raj IRSEE
Deputy General Manager
E&M Department
Deputy General Manager - E & M
Bangalore Metro Rail Corporation Ltd.,
Bangalore - 560038
Baiyyappanahalli Depot
Bangalore - 560 038

CERTIFICATE FROM INDUSTRY/COMPANY

CERTIFICATE FROM ORGANISATION


TO WHOMSOEVER IT MAY CONCERN

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D. Mohan Raj ssm
Deputy General Manager
E&M Department
Deputy ~~Gen. Mgr.~~ **BMRCL E & M**
Bangalore ~~560038~~ **560038**
Byappanahalli Depot
Bangalore - 560 038

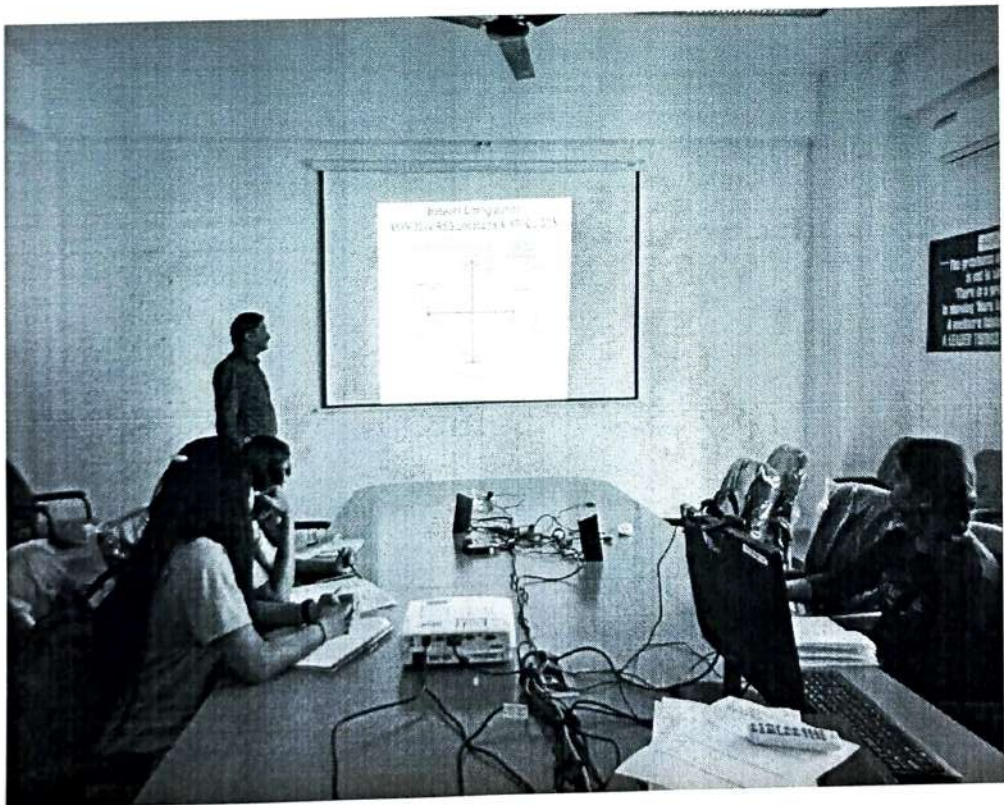
20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: TRACTION AND E&M SYSTEM

AISHWARYAVH	1NH19EE009
AKSHATHA SHREE S	1NH19EE011
ANUSHA S	1NH19EE019
HARSHITA S V	1NH19EE045
KHUSHI J	1NH19EE057
DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

HARSHITA S V

1NH19EE045

Under the Guidance of

Mr. D. Mohan Raj (IRSEE)

Deputy General Manager

E&M Dept., BMRCL

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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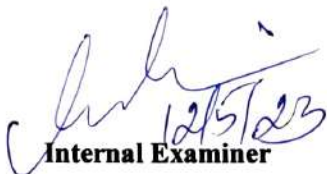
CERTIFICATE


Certified that the internship work entitled "**Traction and E&M system**" carried out by **HARSHITA S V** (1NH19EEE045), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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 12/5/23	 12/5/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. B. Gunapriya	Dr. Sujana S Ring Road, Kadugodi, Bellandur Post, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


12/5/23
External Examiner
Dr. Raghu. N

Jain university

20EEE83A-Internship

DECLARATION

I **HARSHITA S V** student of New Horizon College of Engineering hereby declare that, this internship work entitled "Traction and E&M system" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

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HARSHITA S V

INH19EE045



20EEE83A-Internship

ACKNOWLEDGEMENT

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CERTIFICATE FROM ORGANISATION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. HARSHITA S V** (1NH19EE045) of **BE (EEE)** final semester student from **New Horizon college of Engineering Bangalore-560103**, has done internship at **Byappanahali Depot, Bangalore Metro Rail Corp Ltd(BMRCL), Bangalore-560038**, from 07.03.2023 to 20.04.2023. Under Traction and E&M department as an Internship Trainee.

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D. Mohan Raj IRSEE
Deputy General Manager
E&M Department
Byappanahali Depot, Bangalore - E & M
Bangalore Metro Rail Corporation Ltd
Bangalore - 560 038

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Bangalore - 560 038

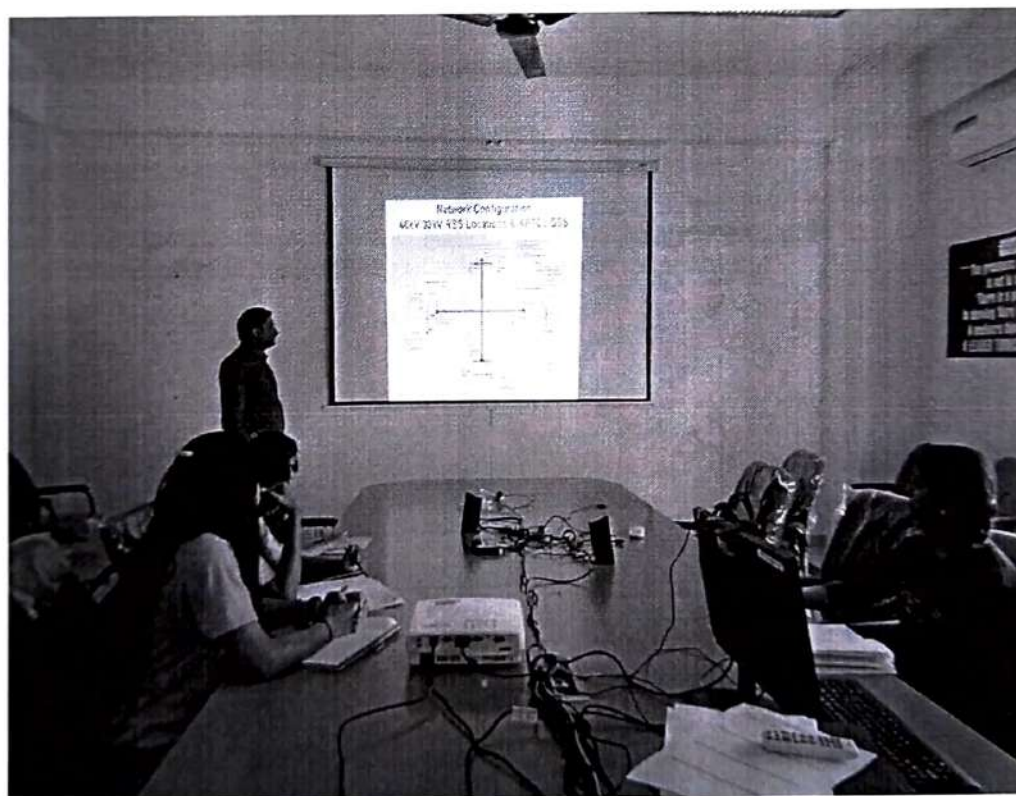
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DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**Y PUNITH
1NH19EE126**

Under the Guidance of
Dr./Prof. Gunapriya.B

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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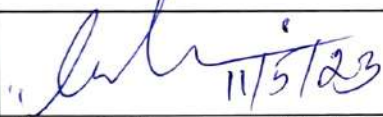
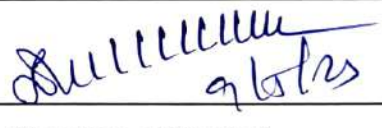
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM"** carried out by **Y PUNITH (1NH19EE126)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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 11/5/23	 9/6/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr./Prof. Gunapriya.B	Dr. Sujatha S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER ENDEXAMINATION



Internal Examiner

Dr. R. M. Sathish



External Examiner

Dr. Raghu N

Jain University

20EEE83A-Internship

DECLARATION

I **Y PUNITH** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluruin partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



Y PUNITH

1NH19EE126

CERTIFICATE FROM ORGANISATION

CIN: U29309KA2019PTC130052



02.03.2023

Offer Letter - Internship

Dear Mr. Punith

This is with reference to your application and the subsequent interview you had with us. We are pleased to offer you the position of "Intern " at our Bangalore factory office on the terms and conditions mutually discussed and agreed.

1. This position is scheduled to begin from March 06, 2023 and will be a six-month paid internship opportunity ending on September 02, 2023.
2. The schedule for this position is Monday to Saturday from 9:00 a.m to 5:30 p.m.
3. This position will pay Stipend of ₹12,500/- (Rupees Twelve Thousand Five Hundred Only) per month.
4. You are requested to submit all the documents listed below at the time of your joining.
 - a) Photocopies of Education Certificates
 - b) Photocopies of Aadhar/Passport indicating name and permanent address
 - c) Present address proof
 - d) Self-attested photocopy of the PAN card
 - e) Details of Bank Account (A/c No., Bank name, IFSC code etc.)
 - f) 2 passport size photographs (The photographs should not be older than 6 months from the date of receipt of this letter)

Kindly report for your duties at the following address:


DYNALEKTRICEQUIPMENT PRIVATE LIMITED
Survey No. 49/2, Vaderamanchanahalli Village,
Kallubalu to Anekal Road,
Jigani (H), Anekal Taluk,
BANGALORE 560105

Kindly send us the duplicate copy duly signed by you, as a token of acceptance of our offer.

With best wishes,

For DYNALEKTRIC EQUIPMENT PRIVATE LIMITED


SHASHANK SRIVATHS
DIRECTOR


3/03/23

Dynalectric Equipment Pvt Ltd

Email: info@dynalectric.com Phone: +91(80) 29611999 Website: www.dynalectric.com

Address: Sy. No. 49/2, Vaderamanchanahalli Village, Kallubalu to anekal Road, Jigani(H), Anekal(T), Bangalore 560105

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr./Prof.Gunapriya.B**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

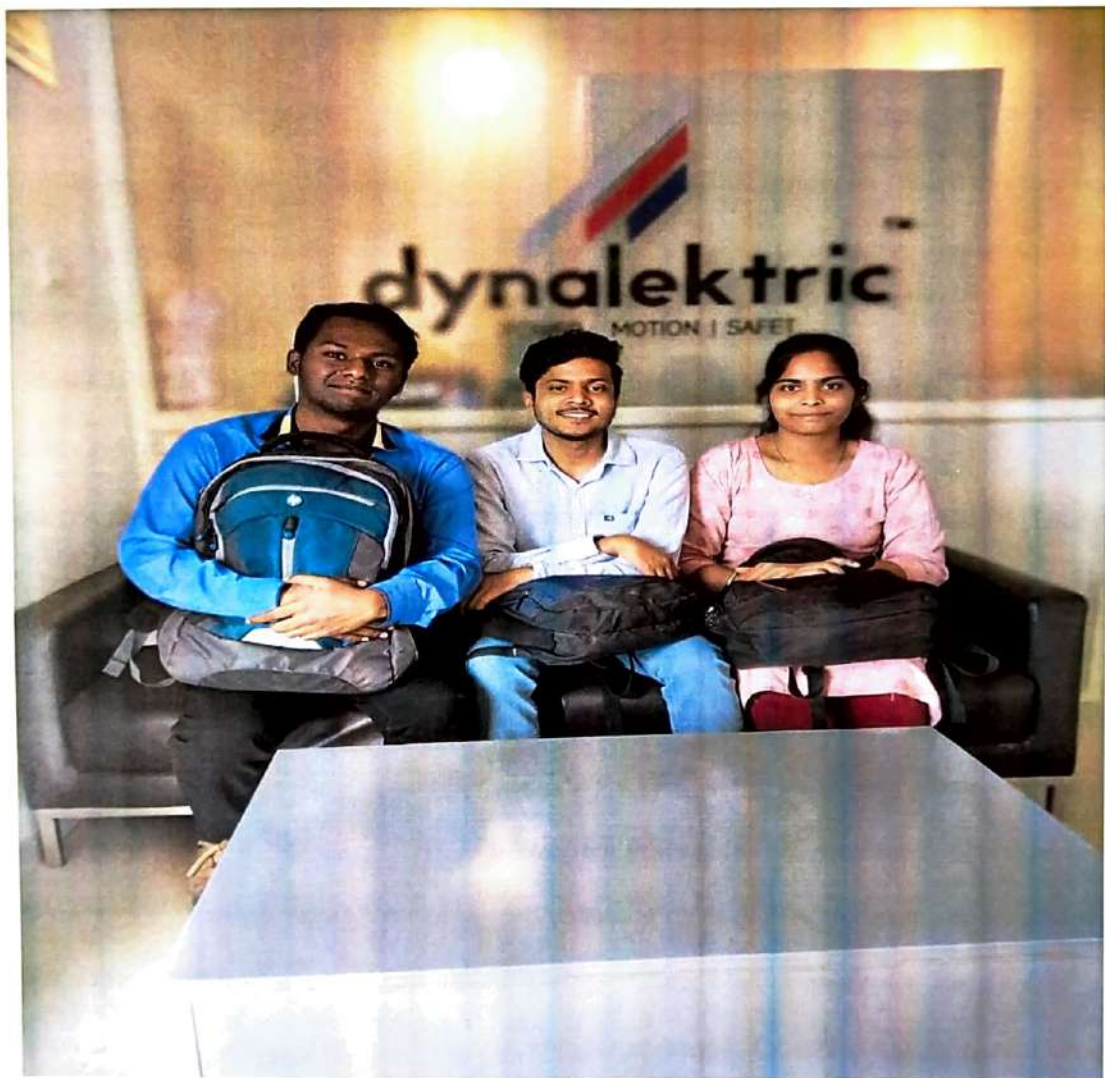
20EEE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: Manufacturing of
Transformers, Reactor and DC Systems**

Y PUNITH 1NH19EE126

Under the Guidance of

Dr./Prof. Gunapriya.B





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

POWER TRANSMISSION AND DISTRIBUTION

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Student Name: VYAS KODGE

USN: 1NH19EE124

Guided by

Dr. GUNAPRIYA B

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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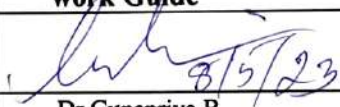
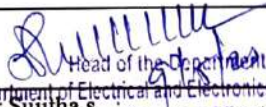
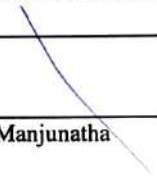
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"POWER TRANSMISSION AND DISTRIBUTION"** carried out by **VYAS KODGE(1NH19EE124)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
 Dr. Gunapriya.B	 Head of the Department Department of Electrical and Electronics Engineering Dr. Sujatha S New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post Bangalore - 560103, Karnataka, India	 Dr. Manjunatha

SEMESTER END EXAMINATION



Internal Examiner





External Examiner

Dr. Raghu.M
Jain university

DECLARATION

I **VYAS KODGE** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**POWER TRANSMISSION AND DISTRIBUTION**" is an original and bonafide work carried out by me at **New Horizon College of Engineering** in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

VYAS KODGE

1NH19EE124

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the project.

We grateful to the Chairman of New Horizon Educational Institution, Dr. Mohan Manghnani for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our Internship.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

VYAS KODGE

1NH19EE124

CERTIFICATE FROM ORGANISATION



1st April 2023

To Whomsoever It May Concern

Mr. Vyas Kodge (INH19EE124) from New Horizon College of Engineering, Bangalore has successfully completed his internship training at Sobha Limited for the duration from 15th February 2023 to 31st March 2023

We wish him all the best for his future endeavors.

Thanking you,
For Sobha Ltd.

Srinivas Shetty
Senior General Manager HR.

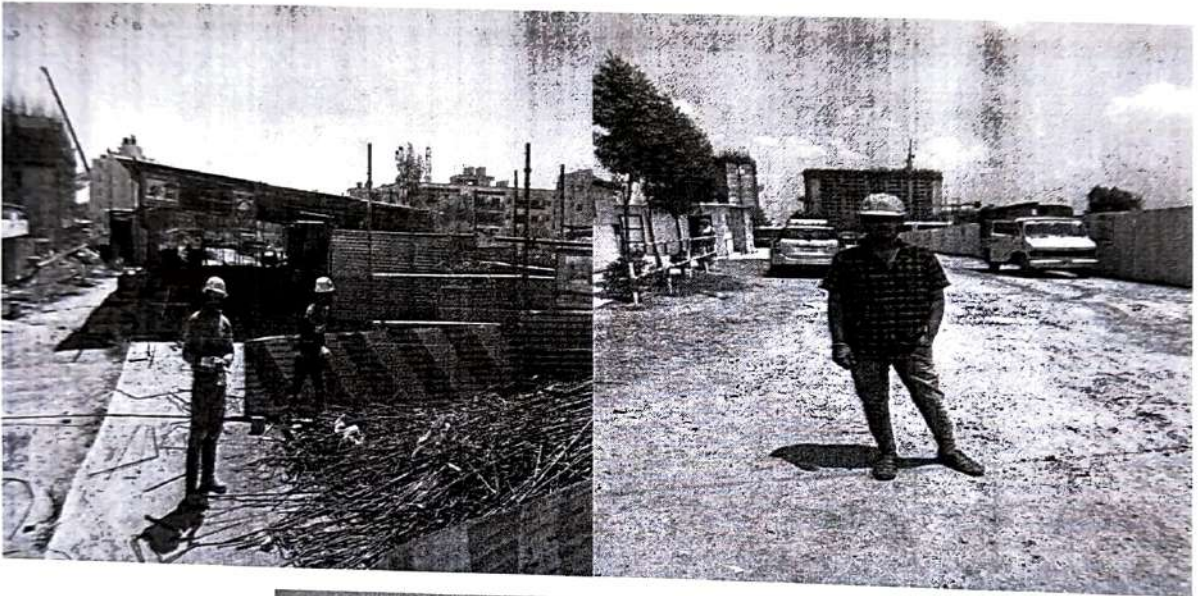
SOBHA LIMITED

REGD & CORPORATE OFFICE : 'SOBHA', SARJAPUR - MARATHAHALLI OUTER RING ROAD, BELLANDUR POST, BANGALORE - 560103, INDIA
CIN: L45201KA1995PLC018475 | TEL : +91-80-49320000 | FAX : +9180 49320444 | www.sobha.com

INTERNSHIP IMAGES

INTERNSHIP TITLE: POWER GENERATION AND TRANSMISSION

VYAS KODGE -1NH19EE124



B.E (EEE)



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

SOFTWARE DEVELOPMENT USING PYTHON JAVA

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**POOJITH N
1NH19EE087**

Under the Guidance of

GUNAPRIYA B

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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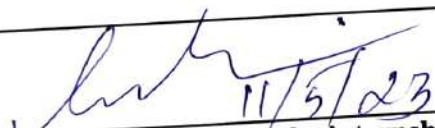
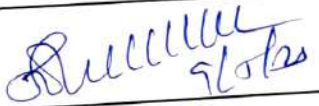
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE


Certified that the internship work entitled **"SOFTWARE DEVELOPMENT USING PYTHON JAVA"** carried out by **POOJITH N (INH19EE087)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 11/5/23	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Gunapriya B	Dr. Sujatha S New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru - 560103, Karnataka, India

SEMESTER ENDEXAMINATION


11/5/23
Internal Examiner
Dr. R. M. M. M.



External Examiner
Dr. Raghu. N
Jain university

20EEE83A-Internship

DECLARATION

I **POOJITH N** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**SOFTWARE DEVELOPMENT USING PYTHON JAVA**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



POOJITH N

1NH19EE087

20EEE83A-Internship**ACKNOWLEDGEMENT**

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



K-AKA TECHNOLOGY SERVICES

7631930496

Certificate ID: KTS/CERTIFICATE/2023/98108

info@k-akatechnology.in

Intern ID: KTS4579

www.k-akatechnology.in

Ref ID: KTS/INTERNSHIP/2023/KTS4579

Date: 10/05/2023

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Poojith N (1NH19EE087), a student of "Electrical and Electronics Engineering" from "New Horizon College Of Engineering" He has completed internship work on the "Software Development Using Python JAVA" and He has worked on a project titled "Understand and Create Spring Boot Application for Generation of the Account Number in prototype bank Application" at K-AKA Technology Services (KTS) from 05th February 2023 to 25th March 2023 under the guidance of Mr. Abhinav, Software Engineer. During the period of his internship program with us, He was found punctual and creative.

Internship/Project Guide

Head

K-AKA Technology Services



No 10, 6th Cross, 3rd Block, Behind Dominos, Nandini Layout, Bangalore, Karnataka-(560043)



NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

POWER TRANSMISSION AND DISTRIBUTION

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**MOHAMMAD SHAWALI
1NH19EE074**

Guided by

Dr.GUNAPRIYA B

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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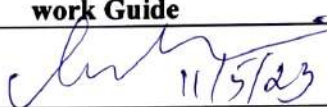
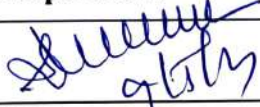
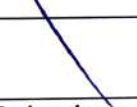
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

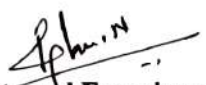
Certified that the internship work entitled **"POWER TRANSMISSION AND DISTRIBUTION"** carried out by **MOHAMMAD SHAWALI(1NH19EE074)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
 11/5/23	 9/5/23	
Dr.Gunapriya.B	Dr.Sujitha S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India.	Dr.Manjunatha

SEMESTER END EXAMINATION


11/5/23
Internal Examiner
Dr. K. M. Yashwanth


External Examiner
Dr. Raghu.N
Jain university

DECLARATION

I **MOHAMMAD SHAWALI** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**POWER TRANSMISSION AND DISTRIBUTION**” is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

MOHAMMAD SHAWALI
1NH19EE074

CERTIFICATE FROM ORGANISATION



1st April 2023

To Whomsoever It May Concern

Mr. Mohammad Shawali (INH19EE074) from **New Horizon College of Engineering, Bangalore** has successfully completed his internship training at Sobha Limited for the duration from **15th February 2023 to 31st March 2023**

We wish him all the best for his future endeavors.

Thanking you,

For Sobha Ltd.

Srinivas Shetty
Senior General Manager HR.

SOBHA LIMITED

REGD & CORPORATE OFFICE: 'SOBHA', SARJAPUR - MARATHAHALLI OUTER RING ROAD, BELLANDUR POST, BANGALORE - 560103, INDIA.
CIN: L45201KA1993PLC018475 | TEL: +91-80-49320000 | FAX: +91-80-49320444 | www.sobha.com

ACKNOWLEDGEMENT

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We are grateful to the Chairman of New Horizon Educational Institution, Dr. Mohan Manghnani for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our Internship.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. GUNAPRIYA B**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

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I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

MOHAMMAD SHAWALI

1NH19EE074



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

JAVA DEVELOPER

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**U MOHAMMED ARSHAD
1NH19EE120**

**Under the Guidance of
Dr./Prof. POOJA JOSE**

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"JAVA DEVELOPER"** carried out by U MOHAMMED ARSHAD (INH19EE120), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name and Signature of the internship work Guide	Name and Signature of Head of the Department
Ms. Pooja Jose	Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru-560103, Karnataka, India Dr. Sujitha S

SEMESTER END EXAMINATION



Internal Examiner

Dr. K. Mohan



External Examiner

Dr. Raghav N
Tain university

20EEE83A-Internship

DECLARATION

I **U MOHAMMED ARSHAD** student of New Horizon College of Engineering hereby declare that, this internship work entitled “JAVA DEVELOPER” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



U MOHAMMED ARSHAD

1NH19EE120

20EEE83A-Internship

ACKNOWLEDGEMENT

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We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. POOJA JOSE**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

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I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

U MOHAMMED ARSHAD

1NH19EE120

CERTIFICATE FROM INDUSTRY/COMPANY



Certificate of Internship

This certificate is awarded to

U Mohammed Arshad

in appreciation for your outstanding accomplishments
as intern at YGK Technologies Pvt Ltd
in Java Developer & Integration Expert
30/01/2023 till 19/04/2023

Given this 20th of April 2023 at
Bengaluru, Karnataka


Vivek Nair
Director & Chief Technology Officer

A circular blue ink stamp is located to the right of the signature. The text 'YGK Technologies Pvt. Ltd.' is written around the top inner edge of the circle, and 'Bengaluru' is written around the bottom inner edge. The center of the stamp contains a stylized 'YGK' logo.

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: JAVA DEVELOPER

STUDENT 1 U MOHAMMED ARSHAD	1NH19EE120
STUDENT 2 ROOPESWAR REDDY	1NH19EE127
STUDENT 3 G KRISHNA CHAITANYA	1NH19EE038
STUDENT 4 MOHAN P	1NH19EE405
STUDENT 5 DEEPAK KUMAR SAH	1NH19EE029
STUDENT 6 KOUSHIK P	1NH19EE403

Under the Guidance of

Dr./Prof. POOJA JOSE





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

PYTHON INTERNSHIP

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

SURAJ RAJU JADHAV

1NH19EE110

Under the Guidance of

Dr./Prof. POOJA JOSE

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





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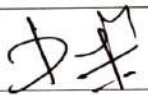
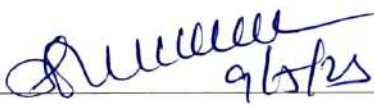
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE


Certified that the internship work entitled **"PYTHON INTERNSHIP"** carried out by SURAJ RAJU JADHAV (1NH19EE110), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship workGuide	Name & Signature of Head of the Department
Ms. POOJA JOSE 	 Dr. Sujatha S Head of the Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner

Dr. K. M. Anand


External Examiner
Dr. Raghu. N.
Jain University

20EEE83A-Internship

DECLARATION

I **SURAJ RAJU JADHAV** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**PYTHON INTERNSHIP**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



SURAJ RAJU JADHAV

1NH19EE110

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. POOJA JOSE**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

SURAJ RAJU JADHAV

1NH19EE110

20EEE83A-Internship
CERTIFICATE FROM INDUSTRY/COMPANY

 **KaaShiv**



2008 - 2018

Certificate
OF COMPLETION

Suraj Raju Jadhav

New Horizon College Of Engineering

Is presented with this certificate on successful completion of
Python Internship

Under the guidelines and norms of the program structure
conducted during for

2 Months (23 February 2023 - 10 May 2023)

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: **KA-FKMse**

Grade: **A**



Venkatesan Prabu.J
Microsoft MVP



The Certificate ID Can be Verified at www.kaashiv.com/verify-now

20EEE83A-Internship

INTERNSHIP PHOTOS





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

INPLANT TRAINING

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**SANTHOSH KUMMI
1NH19EE099**

**Under the Guidance of
Prof. POOJA JOSE**

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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Accredited by NAAC with 'A' Grade, Accredited by NBA



Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled **"INPLANT TRAINING"** carried out by **SANTOSH KUMMI (1NH19EE099)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Pooja Jose	Dr. Sujitha.S

SEMESTER END EXAMINATION


Internal Examiner
Dr. R. M. M. M.


External Examiner
Dr. Raghu.N
Tain university

20EEE83A-Internship

DECLARATION

I **SANTOSH KUMMI** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**INPLANT TRAINING**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University,Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

SANTOSH KUMMI

1NH19EE099

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

SANTOSH KUMMI
1NH19EE099

CERTIFICATE FROM INDUSTRY/COMPANY



KPCL

ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಗದು ನಿಯಮಿತ

KARNATAKA POWER CORPORATION LTD.,

(A premier power generating company of Government of Karnataka)

CIN U85110KA19705GC001919

No. A1 P2 B-B1 / 57

Date: 25/04/2023

CERTIFICATE

This is to certify that **Mr.Santosh S Kummi (1NH19EE099)** student of B.E (Electrical and Electronics Engineering) has completed his Project work /Internship on "**In plant Training**" at Karnataka Power Corporation Limited, Bengaluru, from 08/03/2023 to 21/04/2023.

He has exhibited punctuality and diligence during the Internship period.

For Karnataka Power Corporation Limited.,

For Director (HR)

Mr.Santosh S Kummi (1NH19EE099)

Student of B.E (EEE)

New Horizon college of Engineering

Bellandur,

Bangalore - 560 103

ಶಕ್ತಿಭವನ, ನಂ. ೮೨, ರೇಸ್‌ಕೋರ್ಸ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - ೫೬೦ ೦೦೧.

'Shakthi Bhavan', No. 82, Race Course Road, Bengaluru - 560 001.

Tel : 080-2220 1820 Fax : 080-2237 0348 E-mail : gmhrkpcl@karnataka.gov.in Website : www.https://kpcl.karnataka.gov.in

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE : INPLANT TRAINING

STUDENT 1 JAYANTH R 1NH19EE050

STUDENT 2 SANTHOSH S KUMMI 1NH19EE099

Under the Guidance of

Prof. POOJA JOSE





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**ANUSHA S
1NH19EE019**

Under the Guidance of

**Mr. D. Mohan Raj (IRSEE)
Deputy General Manager
E&M Dept., BMRCL**

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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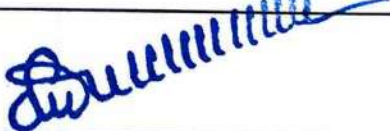
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

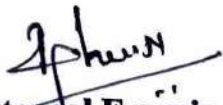
Certified that the internship work entitled **"Traction and E&M system"** carried out by **ANUSHA S (1NH19EE019)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. R. MOHAN DAS	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghav N
Tain university

DECLARATION

I **ANUSHA S** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Traction and E&M system**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ANUSHA S

1NH19EE019

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **D. MOHAN RAJ**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM ORGANISATION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. ANUSHA S** (1NH19EE019) of **BE (EEE)** final semester student from **New Horizon college of Engineering Bangalore-560103**, has done internship at **Byappanahali Depot, Bangalore Metro Rail Corp Ltd(BMRCL), Bangalore-560038**, from 07.03.2023 to 20.04.2023. Under Traction and E&M department as an Internship Trainee.

She has worked on a project titled **Traction and E&M system**. This project was aimed at up gradation of her knowledge & Skilled on industrial training. As part of the project, she has done her Internship for her future betterment & development studies of Green Modern Electric Transport System.

During internship she has demonstrated her skills with self-motivation to learn new technology. Her performance exceeded our expectations and she was able to complete the project on time.

We wish all the best for her upcoming career.


D. Mohan Raj IRSEE
Deputy General Manager
E&M Department
BYP Depot., BMRCL
Deputy General Manager **E & M**
Bangalore Metro Rail Corporation Ltd.,
Baileyappanahalli Depot
Bangalore - 560 038

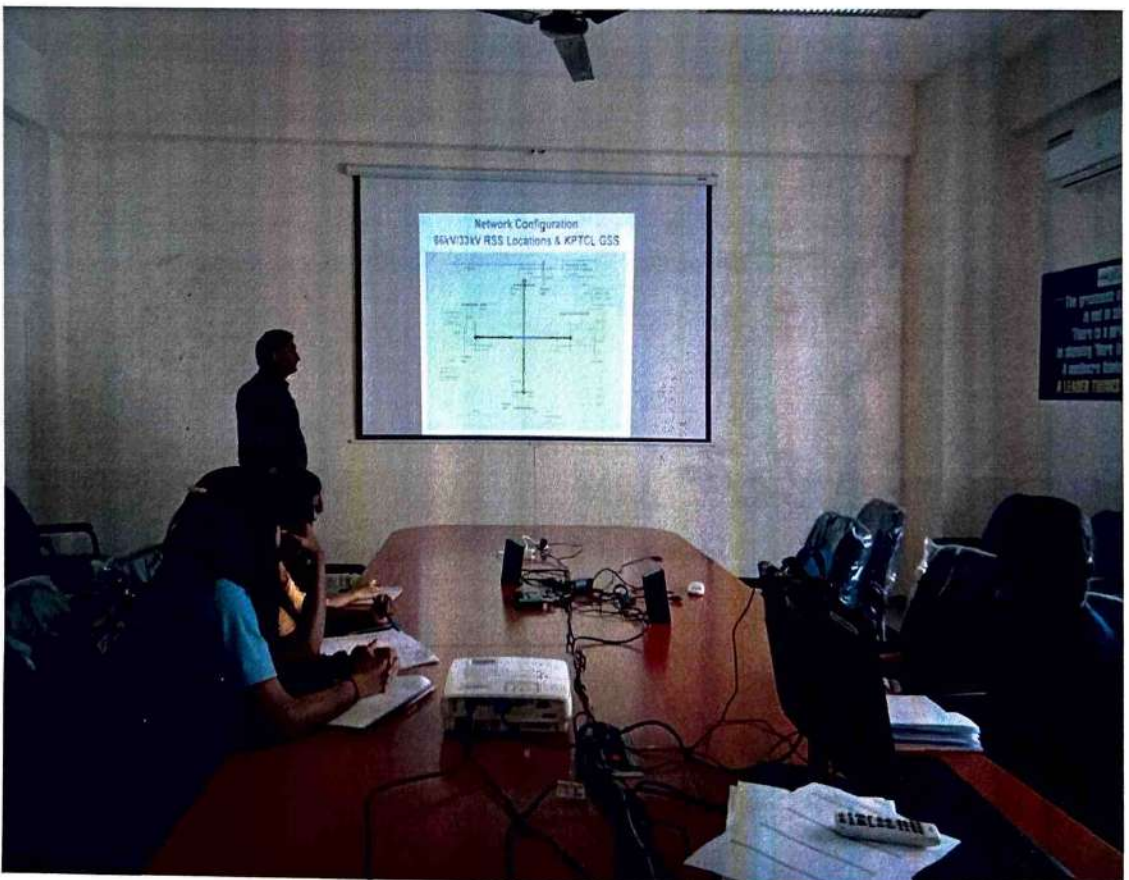
20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: TRACTION AND E&M SYSTEM

AISHWARYAVH	1NH19EE009
AKSHATHA SHREE S	1NH19EE011
ANUSHA S	1NH19EE019
HARSHITA S V	1NH19EE045
KHUSHI J	1NH19EE057
DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

RESILIENT MICRO BUSINESS

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**Meghana S
1NH19EE073**

Guided by

Dr. Gunapriya

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



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Accredited by NAAC with 'A' Grade, Accredited by NBA


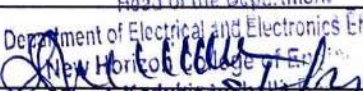
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled “ **Research Intern at Resilient Micro Business**” carried out by **Meghana S 1NH19EE073**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	 Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahally Bengaluru - 560103, Karnataka
Name and Signature of the Internship work Guide	Name and Signature of Head of the Department
Ms. Pooja Jose	Dr. Sujitha S

SEMESTER END EXAMINATION



Internal Examiner

Dr. H. M. ...
NICE



External Examiner

Dr. Raghu. N
Jain university

DECLARATION

I **Meghana S** student of New Horizon College of Engineering hereby declare that, this internship work entitled **Research Intern at Resilient Micro Business**” is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Meghana S

1NH19EE073



SELCO FOUNDATION

690, 15th Cross, 2nd Phase, 100 Feet Road, J.P. Nagar,
Bangalore - 560 078, Karnataka, India Phone : 91 - 80 - 26493145
e-mail : info@selcofoundation.org www.selcofoundation.org

Date: 11-04-2023

Letter of Appreciation

This is to certify that **Ms. Meghana S** an Engineering student from New Horizon College of Engineering, Bangalore (USN: INH19EE073). She has successfully completed her internship with SELCO Foundation.

The duration of her internship was from 9th January to 08th April 2023 (Three months). During this time Meghana worked with Resilience Micro Businesses team at SELCO Foundation and as a part of her internship, she performed the following activities with a high level of quality.

- Primary and secondary research of Food processing businesses.
- Secondary research on Papad making, chakli, puffed rice, tailoring micro businesses.
- Field visits, data collection and Businesses model analyses.
- Creating the solution booklets, case studies and manuals.

SELCO Foundation appreciates the time, efforts, enthusiasm, and passion she contributed to Foundation's ongoing effort to serve the underprivileged section of our society and wishes the best for all her future endeavors.

Sincerely,
Madhubabu Chintala,
Project Manager,
SELCO Foundation.

Ch. Madhubabu
11/04/2023





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

POWER ELECTRONICS

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

NAME: VIDYA G R

USN: 1NH19EE122

Under the Guidance of

Dr. SUJITHA S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum: 590018





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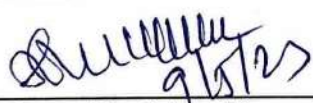
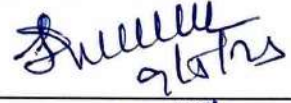
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**POWER ELECTRONICS**" carried out by **VIDYA G R (INH19EE122)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

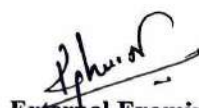
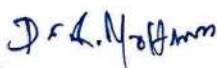
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Name & Signature of the internship work Guide	Name & Signature of Head of the Department of Electrical and Electronics Engineering New Horizon College of Engineering Post. Kadubisanahalli, Bellandur Post. Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru - 560103, Karnataka, India
Dr. SUJITHA S	Dr. SUJITHA S

SEMESTER END EXAMINATION



Internal Examiner



External Examiner

Dr. Raghu N

Tain University

20EEE83A-Internship

DECLARATION

I **VIDYA G R** student of New Horizon College of Engineering hereby declare that, this internship work entitled **"POWER ELECTRONICS"** is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

VIDYA G R
1NH19EE122

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. SUJITHA S**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

VIDYA G R
1NH19EE122

amberroot

Amberroot Systems Private Limited

| #251/252, 3rd Cross road, 3rd Main road, JP Nagar III Phase, Bangalore 560078 |

| Registered Address: #1 Gunasheela Layout, JP Nagar V Phase, Bangalore 560078 |

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Date: 17th.April.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Vidya G.R from New Horizon College of Engineering, Electrical and Electronics Department has completed her internship with our company from 16.Jan.2023 to 17.April.2023. During her course of internship, she was found to be hard working and sincere on the assignments given to her. We wish her great success in her future endeavours.

Yours Sincerely,

For **AMBERROOT SYSTEMS PRIVATE LIMITED**

For **AMBERROOT SYSTEMS PVT LTD.**



Authorised Signatory

Ganganna Sudhakar

Director

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: POWER ELECTRONICS

VIDYA G R 1NH19EE122

Under the Guidance of

Dr. SUJITHA S





**NEW HORIZON
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

EMBEDDED AND IOT

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Name: VANDANA R

USN: 1NH19EE121

Under the Guidance of

Dr. SUJITHA S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

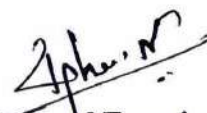
Certified that the internship work entitled **"EMBEDDED AND IOT"** carried out by **VANDANA R (1NH19EE121)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. SUJITHA S	Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India. Dr. SUJITHA S

SEMESTER END EXAMINATION


Internal Examiner
Dr. K. M. Mathan


External Examiner
Dr. Raghu N. Jain
University

20EEE83A-Internship

DECLARATION

I **VANDANA R** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**EMBEDDED AND IOT**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

VANDANA R

1NH19EE121

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let completion of to the successful the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

VANDANA R

1NH19EE121

CERTIFICATE FROM COMPANY



TECHNOLOGICS

Diverse Technology | Seamless Integrity

Internship ID : TLINT/2022/1420

Awarded Date : 31-03-2023

Duration : 2 Months

Internship Certificate

This certificate is proudly presented to

Vandana R

for successful completion of Internship in EMBEDDED AND IOT

under the guidance of **TECHNOLOGICS GLOBAL PVT. LTD.**

Conducted between 01-02-2023 *to* 31-03-2023,

for the student of NEW HORIZON COLLEGE OF ENGINEERING



Signature of Authority

Raghavendra Complex, 10th Main Road, 4th Block, Jayanagar, Bengaluru - 560041, India | www.technologics.in

20EEE83A – Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: EMBEDDED AND IOT

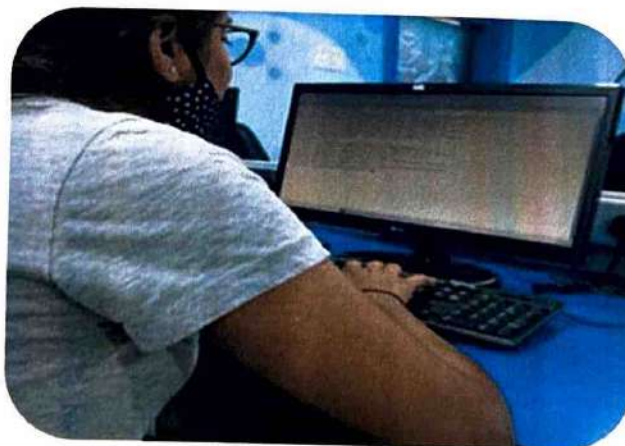
VANDANA R 1NH19EE121

Under the Guidance of

Dr. SUJITHA S



working on the project



learning some basics



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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

MANUFACTURING OF TRANSFORMER, REACTOR AND DC SYSTEM.

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

Name: MEGHANA N T

USN: 1NH19EE072

Under the Guidance of

Dr. SUJITHA S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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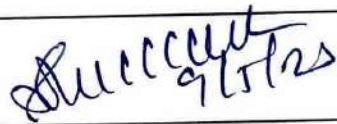
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**MANUFACTURING OF TRANSFORMER REACTOR AND DC SYSTEM**" carried out by **MEGHANA N T (1NH19EE072)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

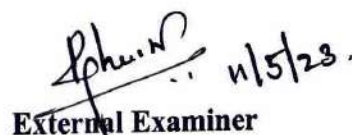
	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. SUJITHA S	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION



Internal Examiner





External Examiner

Dr. Raghu N.
Tain university

20EEE83A-Internship

DECLARATION

I Meghana N T student of New Horizon College of Engineering hereby declare that, this internship work entitled “**MANUFACTURING OF TRANSFORMER, REACTOR AND DC SYSTEM.**” is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

MEGHANA N T

1NH19EE072

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the project.

We grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our internship. I would like to express my immense gratitude to our principal **Dr. MANJUNATHA** and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and for providing the right ambience for carrying out the work and the facilities provided to me.

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I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

MEGHANA N T

1NH19EE072

CERTIFICATE FROM COMPANY

CIN: U29309KA2019PTC130052



02.03.2023

Offer Letter - Internship

Dear Ms. Meghana NT

This is with reference to your application and the subsequent interview you had with us. We are pleased to offer you the position of "Intern" at our Bangalore factory office on the terms and conditions mutually discussed and agreed.

9. This position is scheduled to begin from March 06, 2023 and will be a six-month paid internship opportunity ending on September 02, 2023.

10. The schedule for this position is Monday to Saturday from 9:00 a.m to 5:30 p.m.

11. This position will pay Stipend of ₹12,500/- (Rupees Twelve Thousand Five Hundred Only) per month.

12. You are requested to submit all the documents listed below at the time of your joining.

- m) Photocopies of Education Certificates
- n) Photocopies of Aadhar/Passport indicating name and permanent address
- o) Present address proof
- p) Self-attested photocopy of the PAN card
- q) Details of Bank Account (A/c No., Bank name, IFSC code etc.)
- r) 2 passport size photographs (The photographs should not be older than 6 months from the date of receipt of this letter)

Kindly report for your duties at the following address:

DYNALEKTRICEQUIPMENT PRIVATE LIMITED
Survey No. 49/2, Vaderamanchanahalli Village,
Kallubalu to Anekal Road,
Jigani (H), Anekal Taluk,
BANGALORE 560105

Kindly send us the duplicate copy duly signed by you, as a token of acceptance of our offer.

With best wishes,

For DYNALEKTRIC EQUIPMENT PRIVATE LIMITED

SHASHANK SRIVATHS
DIRECTOR

Meghana N. T
03/03/23

Dynalectric Equipment Pvt Ltd

Email: info@dynalectric.com Phone: +91(80) 29611999 Website: www.dynalectric.com

Address: Sy. No. 49/2, Vaderamanchanahalli Village, Kallubalu to anekal Road, Jigani(H), Anekal(T), Bangalore 560105

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITLE: MANUFACTURING OF TRANSFORMERS, REACTORS, AND DC SSYTEM.

MEGHANA N T 1NH19EE072

Under the Guidance of

Dr. SUJITHA S





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

LTIMINDTREE'S IGNITE 8th SEMESTER INTERNSHIP PROGRAM ON DOTNET (C SHARP)

Submitted in the partial fulfilment of the final year internship

Submitted by

**KUSHAL A Y
1NH19EE062**

Under the guidance of

Prof. MR. SATISHKUMAR D

VISVESVARAYA TECHNOLOGICALUNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



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Outer Ring Road Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

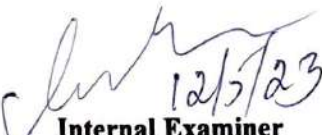
CERTIFICATE


Certified that the internship work entitled **"LTIMINDTREE'S IGNITE 8th SEMESTER INTERNSHIP PROGRAM ON DOTNET(C SHARP)"** carried out by **KUSHAL A Y (1NH19EE062)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Mr. SATISHKUMAR D	Dr. Sujitha S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur, Post. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu
Jain university

20EEE83A-Internship

DECLARATION

I **KUSHAL A Y** student of New Horizon College of Engineering hereby declare that, this internship work entitled "LTIMINDTREE'S IGNITE 8th SEMESTER INTERNSHIP PROGRAM ON DOTNET(C SHARP)" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree award was conferred on an earlier occasion by any student.



KUSHAL A Y

1NH19EE062

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA. S.**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Mr. SATISHKUAMR D.**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM COMPANY

IGNITE | 8th Semester Pre Onboarding Internship Program | Offer Letter

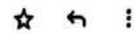


Inbox x



Campus Onboarding <Campus.Onboarding@ltimindtree.com>

28 Feb 2023, 13:15



to me ▾

Dear Kushal A Y,

We are pleased to offer you an internship opportunity ("internship") at LTIMindtree Limited ("LTIMindtree"). The terms and conditions of this offer are as follows and your internship will be subject to and governed by these terms and conditions which shall be binding upon you receiving this email.

- | | | |
|------------------------|---|-----------------------------|
| 1. Internship Duration | : | 9 to 12 weeks |
| 2. Commencement Date | : | 21 Feb 2023 |
| 3. Location | : | Remote |
| 4. Stipend | : | Milestone based - Refer 12. |



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

“ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION”

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

SANTHOSH MELVIN D

1NH19EE098

Under the Guidance of

Dr. VINOTH KUMAR K

2022-23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“JnanaSangama”, Belgaum: 590018**





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION" carried out by **SANTHOSH MELVIN D (INH19EE098)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

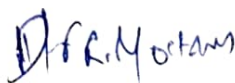
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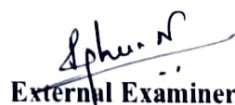
	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION



Internal Examiner





External Examiner

Dr. Raghu N
Jain university

DECLARATION

I **SANTHOSH MELVIN D** student of New Horizon College of Engineering hereby declare that, this internship work entitled "ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



SANTHOSH MELVIN D

1NH19EE098

ACKNOWLEDGEMENT

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INTERNSHIP IMAGES

INTERNSHIP TITLE: ANALYSIS ON SUPFINA FINE GRINDING MACHINE AND THE COMPUTER VISION

YASHVANTHA P

1NH18EE407

SANTHOSH MELVIN D

1NH19EE098

Under the Guidance of

**Dr./Prof. Mr VINOTH KUMAR K &
Ms MANOCHITRA**



SUFINA OUTSIDE BODY



GRINDING SECTION



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

EMBEDDED SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

MANOJ KUMAR.P 1NH19EE070

Guided by

Mr. SUNIL S K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum: 590018





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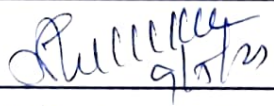

Outer Ring Road, Bellandur, Bangalore-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

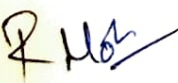
CERTIFICATE

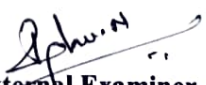
Certified that the internship work entitled "**EMBEDDED SYSTEM**" carried out by MANOJ KUMAR.P (1NH19EE070), benefice Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the reported exposted in the department library. The internship report has been approved as it satisfies the academic requirements irrespective internship work prescribed for said Degree.

		
Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. SUNIL S K	Dr. SUJATHA S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India	Dr. MANJUNATHA

SEMESTER ENDEXAMINATION


Internal Examiner
Dr. R. M. MOHAMMAD


External Examiner
Dr. Raghav
Jain university

DECLARATION

I **MANOJ KUMAR.P** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**EMBEDDED SYSTEM**" is an original and benefice work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

MANOJ KUMAR.P

1NH19EE070

CERTIFICATE FROM ORGANISATION



Gustovalley Technovations

CERTIFICATE OF COMPLETION

This Certifies that

MANOJ KUMAR P

has successfully completed 'Gustovalley Technovations' Internship
Training on Embedded Systems
which was conducted from 01-02-2023 to 18-04-2023.



The Performance delivered during the program was Good

Authorized Signatory

Certificate No. : GL5078



NEW HORIZON COLLEGE OF ENGINEERING

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Bengaluru – 560103, Karnataka, India

Department of Electrical and Electronics Engineering

20EEE83A Internship

Report on

Very Large-Scale Integration (VLSI)

Submitted by

**M ROHITH KUMAR REDDY
1NH19EE066**

Guided by

Dr. Sujitha S

Head of the Department-EEE

Department of Electrical & Electronics Engineering

Dissertation submitted in partial fulfillment of the requirements

For the award of the degree of

BACHELOR OF ENGINEERING

In

ELECTRICAL AND ELECTRONICS ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum – 590018, Karnataka, India





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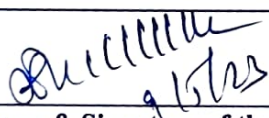
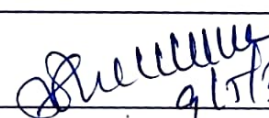
Bengaluru – 560103, Karnataka, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

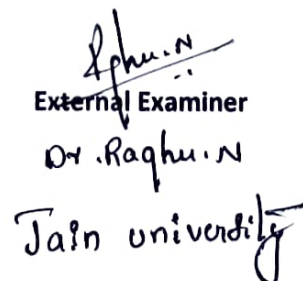
Certified that the internship work entitled “**Very Large-Scale Integration (VLSI)**” carried out by **M Rohith Kumar Reddy (1NH19EE066)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visveswaraiah Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 Name & Signature of the internship work Guide	 Name & Signature of Head of the Department
Dr. SUJITHA S	Dr. SUJITHA S

SEMESTER END EXAMINATION



Internal Examiner


External Examiner
Dr. Raghun.
Tain university

DECLARATION

I **M Rohith Kumar Reddy** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Very Large-Scale Integration (VLSI)**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

 18/09/2023

M ROHITH KUMAR REDDY 1NH19EE066

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the project.

I would like to express my immense gratitude to our principal,


Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

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 18/04/2023

M ROHITH KUMAR REDDY **1NH19EE066**

20EEE83A Internship

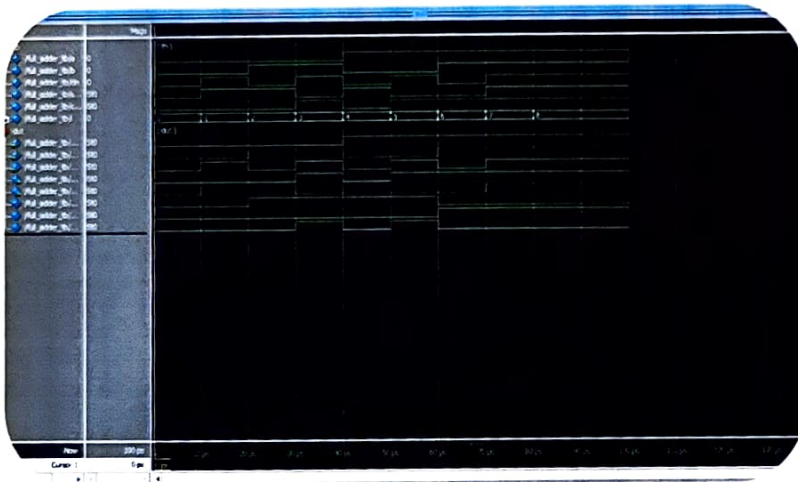
INTERNSHIP IMAGES

INTERNSHIP TITLE: Very Large-Scale Integration (VLSI)

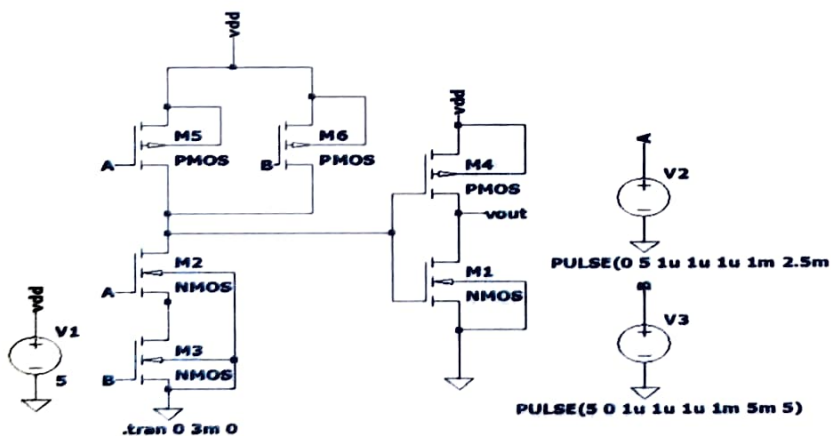
M Rohith Kumar Reddy 1NH19EE066

Under the Guidance of

Dr. Sujitha.S



Testing of Full Adder



Schematic of AND gate

CERTIFICATE/ LOI FROM ORGANIZATION



Capgemini Technology Services India Limited
(Formerly known as iGATE Global Solutions Limited)
IT - IT 2, Airoli MIDC, Thane - Belapur Road
Navi Mumbai 400708, Maharashtra, India
Tel: +91 22 7144 4263 | Fax: +91 22 7141 2121
www.capgemini.com/in-en

Superset ID: 2855642

Letter of Intent ("LOI")

December 18, 2022

Dear Mekala Rohith Kumar Reddy,

We are pleased to inform that your candidature has been shortlisted for the position of **Analyst/A4** with **Capgemini Technology Services India Limited** (hereinafter referred to as "Capgemini" or Company). You will be required to participate and complete the pre-onboarding training program assigned and applicable to you as may be communicated by the Company later. Please note that it is essential for you to participate, effectively leverage and successfully complete this program as a prerequisite prior to being onboarded as an employee with Capgemini.

We request you to carefully read and understand the Terms and Conditions of this Letter of Intent with Annexures hereto (hereinafter referred to as LOI).

- A Please note that your name mentioned in this LOI will be used to create your records in Capgemini & the same will be continued for all the communication & Company documentation purpose. In case you need a change in the name; please notify before commencement of training. Please note that no changes to the record can be made later in time. The name provided by you should match with the identification documents submitted to the Company, such as Aadhar Card, PAN card, Passport, etc.
- B We are proposing compensation package and benefits post-onboarding, the details of which are set forth in **Annexure 1** to this LOI.
- C Upon accepting this LOI, you will be required to submit a set of documents as mentioned in the **Annexure- 2**. Thereafter, you will be provided access to our pre-onboarding training program, as applicable. This will enable you to learn and master the concepts and skills required to be industry ready. The pre-onboarding training program can include physical classroom training/ self-paced e-learning/ hybrid model of training. The learning journey will be inclusive of assignments, assessments, hackathons/ competitions, and webinars as deemed appropriate by Capgemini.
- D The progress made by you in this learning journey would not only help you in getting onboarded but also help you to be trained for advanced skills relevant to your career at Capgemini. We also encourage you to learn beyond the prescribed course curriculum and acquire industry recognized certifications to accelerate your career in this competitive industry.
- E Pre-onboarding training Program and Terms & Conditions of the LOI
 - 1. Pre-onboarding Document Verification: Capgemini adheres to a strong document verification process. As a part of this process all the personal, educational and professional (if



Centre of Excellence in VLSI



CERTIFICATE OF COMPLETION

This is to certify that

Mekala Robith Kumar Reddy

has successfully completed

Advanced Digital Design

Online Course on 13th day of February 2023

MSUID : 012312038



SIVAKUMAR P R
CEO, MAVEN SILICON





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

PRODUCT LIFECYCLE MANAGEMENT

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

AISIRI M URS (1NH19EE010)

Guided by

Dr. SUJITHA S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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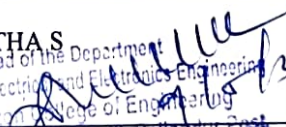
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

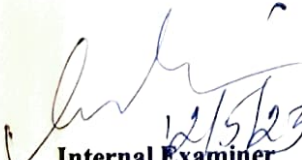
CERTIFICATE

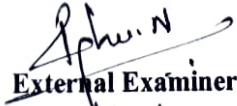
Certified that the internship work entitled "**PRODUCT LIFECYCLE MANAGEMENT**" carried out by AISIRI M URS (INH19EE010), bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. SUJITHA S 	Dr. SUJITHA S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kattubesanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India 

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghav N
Jain University

DECLARATION

I AISIRI M URS student of New Horizon College of Engineering hereby declare that, this internship work entitled "**PRODUCT LIFECYCLE MANAGEMENT**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



AISIRI M URS

1NH19EE010

CERTIFICATE FROM ORGANISATION



Indish Technologies
Concept | Design | Engineering

Date: 14/04/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Alsiri M Urs** has successfully completed her internship program with **PLM Indishtech Pvt Ltd.**, Bangalore, from 1st March 2023 till 14th April 2023.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations, and she was able to complete the project on time.

We wish her all the best for her upcoming career.

PLM INDISHTECH PVT LTD

For PLM INDISHTECH PVT. LTD.

Signature: _____

Director



Jerry Clifford Francis
Director

CIN: U72200KA2015PTC082080

PLM IndishTech Pvt Ltd. #14, 2nd Floor, Share Office Solution, Tamara Kannan Road, Halasuru, Bengaluru 560 008, India
T: +91 76187 45505
www.indishtech.com



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

JAVA DEVELOPER

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

KOUSHIK P

1NH20EE403

Under the Guidance of

Dr. Sujitha S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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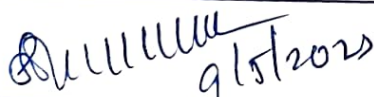
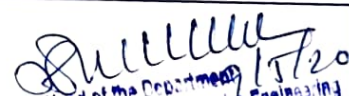
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

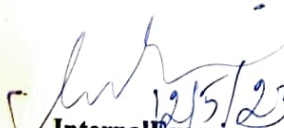
CERTIFICATE

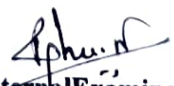
Certified that the internship work entitled "JAVA DEVELOPER" carried out by KOUSHIK P (1NH20EE405), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 9/5/2023	 15/7/2023
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Sujitha S	Dr. Sujitha S

SEMESTER ENDEXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu . N
Jain university

DECLARATION

I **KOUSHIK P** , student of New Horizon College of Engineering hereby declare that, this internship work entitled "JAVA DEVELOPER" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



KOUSHIK P

1NH20EE403

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. Sujitha S**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Certificate of Internship

This certificate is awarded to

Koushik P

in appreciation for your outstanding accomplishments
as intern at YGK Technologies Pvt Ltd
in Java Developer & Integration Expert
30/01/2023 till 19/04/2023

Given this 20th of April 2023 at
Bengaluru, Karnataka



Vivek Nair

Director & Chief Technology Officer

INTERNSHIP IMAGES

INTERNSHIP TITLE: JAVA DEVELOPER

STUDENT 1 U MOHAMMED ARSHAD	1NH19EE120
STUDENT 2 ROOPESWAR REDDY	1NH19EE127
STUDENT 3 G KRISHNA CHAITANYA	1NH19EE038
STUDENT 4 MOHAN P	1NH20EE405
STUDENT 5 DEEPAK KUMAR SAH	1NH19EE029
STUDENT 6 KOUSHIK P	1NH20EE403

Under the Guidance of

Dr./Prof. POOJA JOSE





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Outer Ring Road, Bellandur, Bengaluru – 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

20EEE83 Internship

Report on

VENTILATOR: MODEL BASED DESIGN

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

HARSHITHA R

1NH19EE046

Guided by

Dr. SUJITHA S

2022-2023

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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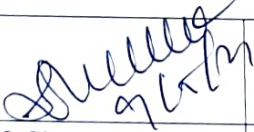

Outer Ring Road, Bellandur, Bengaluru - 560103

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE


Certified that the internship work entitled "**VENTILATOR: MODEL BASED DESIGN**" carried out by **HARSHITHA R (1NH19EE046)**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum during the Year 2020-21.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. SUJITHA S	Dr. SUJITHA S Department of Electronics Engineering New Horizon College of Engineering Ring Road, Knowledge Park, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION

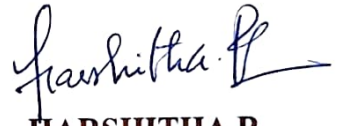

12/5/23
Internal Examiner


External Examiner
Dr. Raghu. N
Jain university

DECLARATION

I **Harshitha R**, student of New Horizon College of Engineering hereby declare that, this internship work entitled “**VENTILATOR: MODEL BASED DESIGN**” is an original and bonafide work carried out by me at TATA Elxsi in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here does not form part of any other thesis or dissertation based on which a degree or award was conferred on an earlier occasion by any student.



HARSHITHA R

1NH19EE046

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed, which has led to the successful completion of the project.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** and **Dr. SUJITHA S**, Head of the department, for their constant support and motivation that has encouraged me to come up with this project and for providing the right ambiance for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr SUJITHA S**, Dept. of Electrical and Electronics Engineering for her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

Last but not least I would like to thank all my friends, without whose support and co-operation the completion of project would not have been possible.

HARSHITHA R

1NH19EE046

20EEE83A Internship

CERTIFICATE FROM ORGANIZATION



09 May 2023

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms. Harshitha R (35944) worked as an intern in our organization as a part of her academic curriculum from 22 February 2023 to 27 April 2023.

As a part of her project study, she worked on "Model Based Design of Servo ventilator 900C," and has successfully completed the same.

Her contributions are noteworthy, and she has also exhibited a lot of enthusiasm to learn new skills, concepts and algorithms, etc.

We wish her success in all her future endeavors.

Best Regards,

For Tata Elxsi Limited

A handwritten signature in black ink, appearing to read 'Geetha Kannan'.

Geetha Kannan
Corporate Manager – Immigration & HR Operations

engineering creativity

TATA ELXSI

Registered Office: Tata Elxsi Limited, ITPB Road, Off Madhavai, Bangalore 560 048, India
Tel : +1 80 2252 9123 Fax : +91 80 2067 1474
www.tataelxsi.com
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20EEE83A Internship

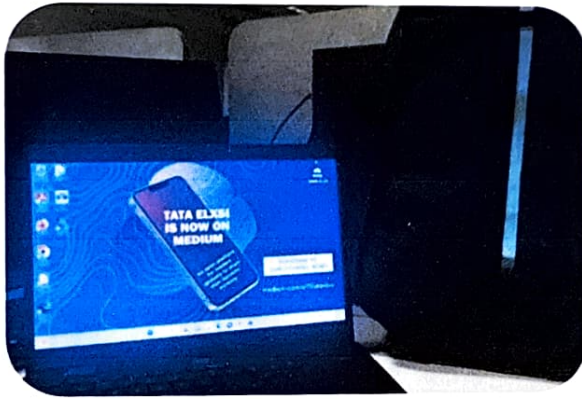
INTERNSHIP IMAGES

INTERNSHIP TITLE: VENTILATOR: MODEL BASED DESIGN

HARSHITHA R 1NH19EE046

Under the Guidance of

Dr. SUJITHA S



Received personal work laptop



Working at office



NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on
FIRE ALARM SYSTEM

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

ANJANA KUMARI
1NH19EE015

Under the Guidance of

Dr.B.Gunapriya
(Associate professor)

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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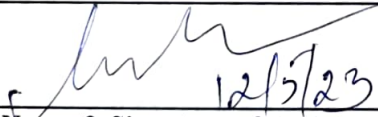
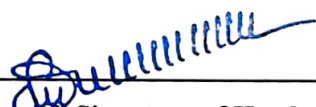
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

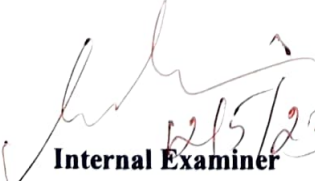
CERTIFICATE

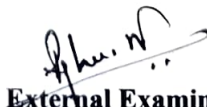
Certified that the internship work entitled "**FIRE ALARM SYSTEM**" carried out by **ANJANA KUMARI (1NH19EE015)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 12/5/23	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. B. Gunapriya	Dr. Sujitha S. Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathalli, Bellandur Post Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu. N
Tain University

20EEE83A-Internship

DECLARATION

I **Anjana Kumari** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**FIRE ALARM SYSTEM**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ANJANA KUMARI

1NH19EE015

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **DR.B.GUNAPRIYA**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A Internship
INTERSHIP IMAGES

INTERSHIP TITLE: **FIRE ALARM SYSTEM**

ANJANA KUMARI 1NH19EE015

Under the Guidance of

Dr.B.Gunapriya





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

MANUFACTURING OF HEAT PUMPS

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**CHETHAN D R
1NH19EE024**

Under the Guidance of
Prof.MR. SATISH KUMAR D

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”,Belgaum:590018





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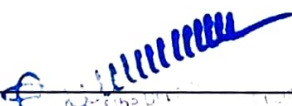
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

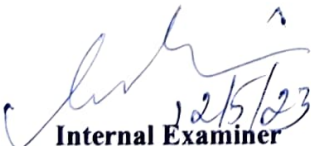
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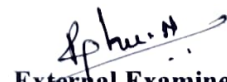
Certified that the internship work entitled "**MANUFACTURING OF HEAT PUMPS**" carried out by **CHETHAN D R(1NH19EE024)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of Department
Prof. Mr Sathish Kumar D	Dr. Sathish Kumar D New Horizon College of Engineering Ring Road, Kadubesanahalli, Bellandur Post Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu N
Jain university

20EEE83A-Internship

DECLARATION

I **CHETHAN D R** student of New Horizon College of Engineering hereby declare that, internship work entitled “ **MANUFACTURING HEAT PUMPS** ”is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Chethan DR

CHETHAN D R

1NH19EE024

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. SATISH KUMAR D** Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CHETHAN D R
1NH19EE024

CERTIFICATE FROM INDUSTRY/COMPANY



VYOMA INDUSTRIES

Plot No.Q72, K.S.S.I.D.C 2nd Phase Antharasanahalli Industrial Area, Madhugiri
Road, Tumakuru, Karnataka-572106. E-mail Address: sales@vyomaindustries.com
Contact Number: +91 9986998536

Ref. No. VYXT-22/23-0020

Date: 02 /05/2023

CERTIFICATE

This is to certify that Mr. CHETHAN D R , [USN 1NH19EE024] pursuing BE Electrical and Electronics Engineering at "New Horizon College of Engineering" has successfully completed his Internship in our organization from 27/02/2023 to 30/04/2023.

During internship his work ethics and conduct was found Satisfactory.

We wish him all the best for his future endeavors.

For VYOMA INDUSTRIES


Proprietor

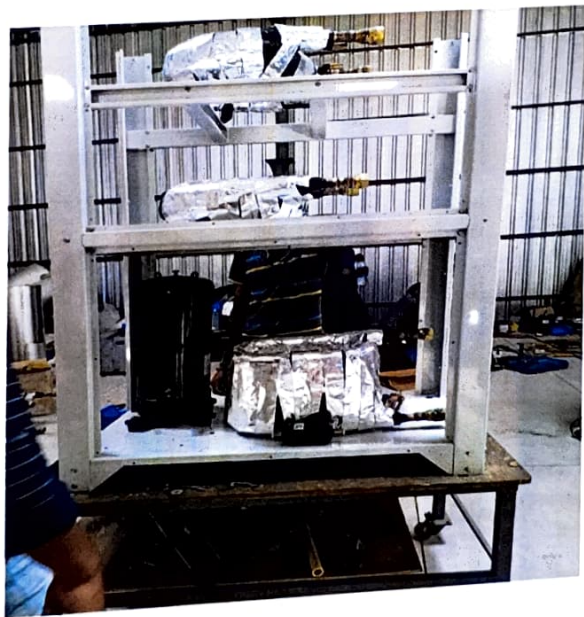
VIJAY C
Proprietor
VYOMA INDUSTRIES

20EEE83A Internship

INTERNSHIP IMAGES

INTERNSHIP TITTLE: MANUFACTURING OF HEAT PUMPS

STUDENT 1: CHETHAN D R (1NH19EE024)





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

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Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

**AKSHATHA SHREE S
1NH19EE011**

Under the Guidance of

**Mr. D. Mohan Raj (IRSEE)
Deputy General Manager
E&M Dept., BMRCL**

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA



Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE

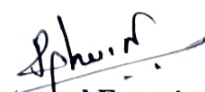
Certified that the internship work entitled “**Traction and E&M system**” carried out by **AKSHATHA SHREE S (INH19EE011)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr.R.. MOHAN DAS	Dr.Sujitha.S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu.N
Jain university

20EEE83A-Internship

DECLARATION

I **AKSHATHA SHREE S** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Traction and E&M system**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Akshatha S
AKSHATHA SHREE S
1NH19EE011

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. R. MOHAN DAS**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

CERTIFICATE FROM ORGANISATION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. AKSHATHA SHREE S** (INH19EE011) of BE (EEE) final semester student from New Horizon college of Engineering Bangalore-560103, has done internship at Byappanahali Depot, **Bangalore Metro Rail Corp Ltd(BMRCL)**, Bangalore-560038, from 07.03.2023 to 20.04.2023. Under Traction and E&M department as an Internship Trainee.

She has worked on a project titled **Traction and E&M system**. This project was aimed at up gradation of her knowledge & Skilled on industrial training. As part of the project, she has done her Internship for her future betterment & development studies of Green Modern Electric Transport System.

During internship she has demonstrated her skills with self-motivation to learn new technology. Her performance exceeded our expectations and she was able to complete the project on time.

We wish all the best for her upcoming career.


D. Mohan Raj
Deputy General Manager
E&M Department
BYE Depot, BMRCL
Deputy General Manager - E & M
Bangalore Metro Rail Corporation Ltd.,
Balyappanahalli Depot
Bangalore - 560 038

20EEE83A Internship
INTERNSHIP IMAGES

TERNSHIP TITLE: **TRACTION AND E&M SYSTEM**

AISHWARYAVH	1NH19EE009
AKSHATHA SHREE S	1NH19EE011
ANUSHA S	1NH19EE019
HARSHITA S V	1NH19EE045
KHUSHI J	1NH19EE057
DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

AISHWARYA V H

1NH19EE009

Under the Guidance of

Mr. D. Mohan Raj (IRSEE)

Deputy General Manager

E&M Dept., BMRCL

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

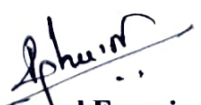
Certified that the internship work entitled "Traction and E&M system" carried out by AISHWARYA V H(1NH19EE009), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr.R.Mohan Das	Dr. Srinatha S Ring Road, Kadubisanahalli, Bellandur Post, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu N
Jain university

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. R. MOHAN DAS**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

CERTIFICATE FROM ORGANISATION


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. AISHWARYA V H (INH19EE009)** of BE (EEE) final semester student from **New Horizon college of Engineering Bangalore-560103**, has done internship at **Byappanahali Depot, Bangalore Metro Rail Corp Ltd(BMRCL), Bangalore-560038**, from 07.03.2023 to 20.04.2023. Under Traction and E&M department as an Internship Trainee.

She has worked on a project titled **Traction and E&M system**. This project was aimed at up gradation of her knowledge & Skilled on industrial training. As part of the project, she has done her Internship for her future betterment & development studies of Green Modern Electric Transport System.

During internship she has demonstrated her skills with self-motivation to learn new technology. Her performance exceeded our expectations and she was able to complete the project on time.

We wish all the best for her upcoming career.


D. Mohan Raj IASCE
Deputy General Manager
E&M Department
BYP Depot., BMRCL
BANGALORE-560038

Deputy General Manager - E & M
Bangalore Metro Rail Corporation Ltd.,
Baiyyappanahalli Depot
Bangalore - 560 038

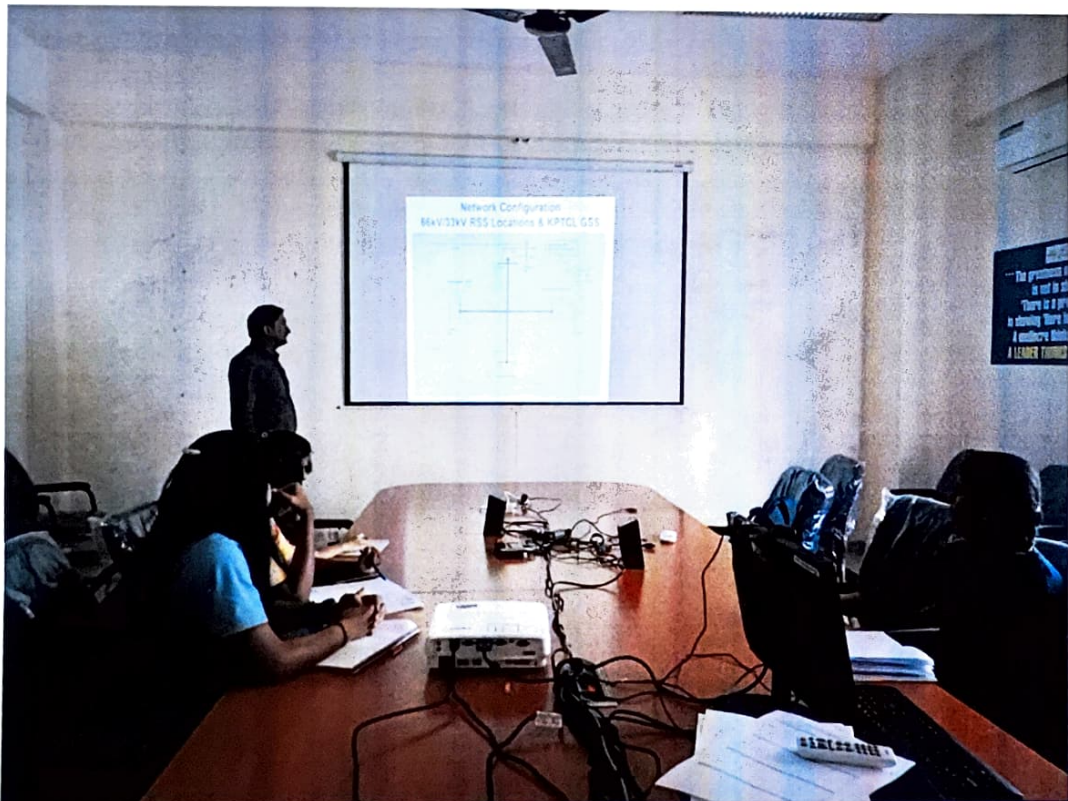
20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: TRACTION AND E&M SYSTEM

AISHWARYAVH	1NH19EE009
AKSHATHA SHREE S	1NH19EE011
ANUSHA S	1NH19EE019
HARSHITA S V	1NH19EE045
KHUSHI J	1NH19EE057
DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

TRACTION AND E&M SYSTEM

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

KHUSHI J

1NH19EE057

Under the Guidance of

Mr. D. Mohan Raj (IRSEE)

Deputy General Manager

E&M Dept., BMRCL

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

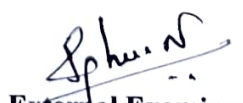
Certified that the internship work entitled "**Traction and E&M system**" carried out by **KHUSHI J (1NH19EE057)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Bellandur, Bengaluru-560103, Karnataka, India
Dr. R. MOHAN DAS	Dr. Sujitha.S

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghun
Jain university

DECLARATION

I **KHUSHI J** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Traction and E&M system**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



KHUSHI J

1NH19EE057

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **D. MOHAN RAJ**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY

CERTIFICATE FROM ORGANISATION

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. KHUSHI J** (INH19EE057) of **BE (EEE)** final semester student from **New Horizon college of Engineering Bangalore-560103**, has done internship at **Byappanahalli Depot, Bangalore Metro Rail Corp Ltd(BMRCL), Bangalore-560038**, from **07.03.2023 to 20.04.2023**. Under **Traction and E&M** department as an **Internship Trainee**.

She has worked on a project titled **Traction and E&M system**. This project was aimed at up gradation of her knowledge & Skilled on industrial training. As part of the project, she has done her **Internship** for her future betterment & development studies of **Green Modern Electric Transport System**.

During internship she has demonstrated her skills with self-motivation to learn new technology. Her performance exceeded our expectations and she was able to complete the project on time.

We wish all the best for her upcoming career.


D. Mohan Raj INSEE
Deputy General Manager
E&M Department
BYP Depot., BMRCL
BANGALORE-560038
Deputy General Manager - E & M
Bangalore Metro Rail Corporation Ltd.
Byappanahalli Depot
Bangalore - 560 038

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: TRACTION AND E&M SYSTEM

AISHWARYAVH	1NH19EE009
AKSHATHA SHREE S	1NH19EE011
ANUSHA S	1NH19EE019
HARSHITA S V	1NH19EE045
KHUSHI J	1NH19EE057
DANAMMA TODALABAGI	1NH20EE402

Under the Guidance of

D. MOHAN RAJ





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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A- Internship

Report on

RESILIENT MICRO BUSINESS

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

Manoj Kumar H V

1NH19EE069

Guided by

Mr. Sunil S.K

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018



2022-23



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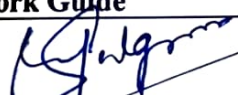

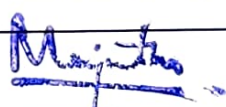
Outer Ring Road, Bellandur, Bengaluru - 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

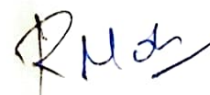
Certified that the internship work entitled “ **Research Intern at Resilient Micro Business**” carried out by **Manoj Kumar H V 1NH19EE069**, bonafide Student(s) of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visveswaraiah Technological University, Belgaum

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
		

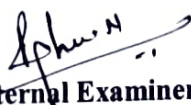
Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisanahalli, Bellandur Post.
Bangalore - 560103, Karnataka, India

SEMESTER END EXAMINATION



Internal Examiner

Dr. K. M. H. M.



External Examiner

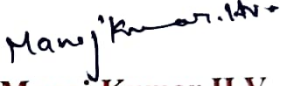
Dr. Raghu. N.

Jain university

DECLARATION

I **Manoj Kumar H V** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Research Intern at Resilient Micro Business**" is an original and bonafide work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


Manoj Kumar H V
1NH19EE069

CERTIFICATE FROM ORGANISATION



SELCO FOUNDATION

690, 15th Cross, 2nd Phase, 100 Feet Road, J.P. Nagar,
Bangalore - 560 078, Karnataka, India Phone : 91 - 80 - 28493145
e-mail : info@selcofoundation.org www.selcofoundation.org

Date: 11-04-2023

Letter of Appreciation

This is to certify that **Mr. Manoj Kumar H V** an Engineering student from New Horizon College of Engineering, Bangalore (USN: INH19EE069). He has successfully completed the internship with SELCO Foundation

The duration of her internship was from 9th January to 08th April 2023 (Three months). During this time Manoj worked with Resilience Micro Businesses department at SELCO Foundation and as a part of his internship, performed the following activities with a high level of quality.

- Primary and secondary research of Food processing businesses.
- Secondary research on Chilli pounding, flour mills, oil mill, agarabatti making and saloon micro businesses
- Creating the solution booklets, case studies and manuals.
- Field visits, data collection and Businesses model analyses.

SELCO Foundation appreciates the time, efforts, enthusiasm and he brought to Foundation's ongoing effort to serve the underprivileged section of our society and wishes the best for all her future endeavors.

Sincerely,
Madhu Babu Chintala,
Project Manager,
SELCO Foundation

CL-Madhu Babu
11/04/2023



Approval u/s 80G(5)(vi) of the I.T Act 1961 : AAKTS0145GF20214 From A Y 2022-23 to A Y 2026-27

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the project.

We are grateful to the Chairman of New Horizon Educational Institution, Dr. Mohan Manghnani for motivating us to carry out research in the NHCE and for providing with infrastructural facilities and many other resources needed for our Internship.

I would like to express my immense gratitude to our principal,

Dr. MANJUNATHA and **Dr. SUJITHA S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Mr. Sunil S K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my project in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the project.

I would like to thank my parents for supporting and helping in the completion of the project.

I would like to thank the team members of Resilient Micro Members at Selco Foundation for supporting us and encouraging during this course of Journey

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of project would not have been possible.

Manoj Kumar H V

1NH19EE069



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

DATA ANALYSTICS -ERNST AND YOUNG

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**GAUTAMMEE K K
1NH19EE042**

Under the Guidance of
Dr.VINOTH KUMAR K

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

“JnanaSangama”, Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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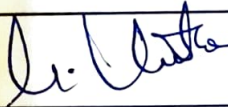
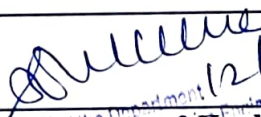
OuterRingRoad,Bellandur,Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

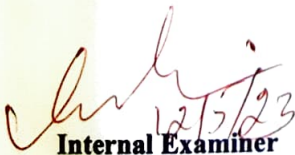
CERTIFICATE

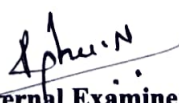
Certified that the internship work entitled "DATA ANALYST" carried out by GAUTAMMEE K K (1NH19EE042), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections/suggestions indicated for Internal Assessment have been in incorporated in there port deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the Internship work Guide	Name & Signature of Head of the Department
Dr Vinoth Kumar K	Dr Sujitha S

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu N
Jain university

20EEE83A-Internship

DECLARATION

I **GAUTAMMEE K K** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**DATA ANALYST-ERNST AND YOUNG**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

GAUTAMMEE K K
1NH19EE042

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr VINOTH KUMAR K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and cooperation the completion of Internship would not have been possible.

GAUTAMMEE K K

1NH19EE042

INTERNSHIP OFFER LETTER



Ernst & Young LLP,
UB City - 6th Floor, Canberra Block No. 24,
Vittal Mallya Road, Bangalore - 560001

01 Feb 2023

Ms. Gautamnee K K
500/501, 4Th Main, 1St Cross,
Vijayananda Nagar, Nandini Layout,
Bengaluru - 560096

Dear Gautamnee,

Sub: Project Training

We are pleased to offer you Project training in Technology Consulting so as to facilitate you to acquire requisite degree of proficiency, competency and work knowledge.

Duration	:	20 February 2023 - 30 June 2023
Service Line	:	Technology Consulting
Stipend	:	21,200 per month
Project Location	:	Bangalore
Project Mentor	:	Sujata Sawant

Your Project Mentor will brief you on your Project when you join.

At the Project Location city, you are expected to make your own accommodation and travel arrangements, to and from your place of work.

Your working hours will be as per those of the client or as per the office as the case may be. You will not be entitled to any benefits and allowances as applicable to the employees of the Company/Firm. However, the period of training may further be extended if deemed necessary at the sole discretion of the Company/Firm. Your current engagement is only in the capacity of a trainee and shall not be construed to be an employment. Moreover, the current training shall not entitle you to claim permanent employment with either *Ernst & Young LLP*, or the client.

Looking forward to having you with us, and hope you have a rewarding and challenging experience with Ernst & Young LLP.

Please sign and return to us the duplicate copy of this letter in token of your acceptance.

Yours faithfully
For *Ernst & Young LLP*.

Anshula Verma
Authorised Signatory

Signed _____ Date: _____

Gautamnee K K

INTERNSHIP COMPLETION CERTIFICATE



Ernst & Young LLP
12th & 13th Floor
"UB City" Canberra Block
No.24, Vittal Mallya Road
Bengaluru - 560 001, India

Internship Interim Report

04-05-23

Dear Gautammee K K,

This is to certify that GAUTAMMEE K K (INH19EE042) has been working as an intern at Ernst and Young in our organization at Bangalore location.

Start Date: 20-02-23

End Date: 30-06-23

Internship Title: Technology Consulting- Analytics

Position: Intern

Project Description:- Development of a Python based tool to ensure adequate data quality rules are being configured to validate the quality of the incoming data. The tool is scaled to check data quality of 1000+ data fields for last 15 years of client data.

Project Status:- 400+ data quality rules for 500 data fields have been configured in the tool so far. The development is in progress for rest of the data fields.

We found the intern sincere, dedicated and result oriented. We take the opportunity to thank and wish the intern all the best for the future endeavors.

Sincerely,
Arpit K Tejan,
arpit.tejan@in.ey.com
Project Manager



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road , Bellandur , Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**20EEE83A-Internship
Report on**

**Design a REST API for performing the CRUD Operation in Database
prototype bank Application**

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

GAURAV P KUMAR

1NH19EE040

Under the Guidance of
Prof. Karthika M

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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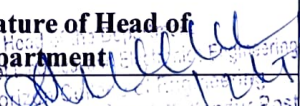
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

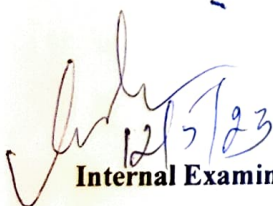
CERTIFICATE

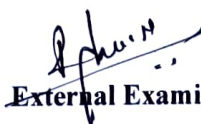
Certified that the internship work entitled “**Design a REST API for performing the CRUD Operation in Database prototype bank Application**” carried out by **GAURAV P KUMAR(1NH19EE040)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

Name & Signature of the internship work Guide	Name & Signature of Head of the Department
	
Prof. Karthika M	Dr. SEETHA S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Marathalli, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


12/5/23
Internal Examiner


External Examiner
Dr. Raghu N.
Jain University

20EEE83A-Internship

DECLARATION

I **GAURAV P KUMAR**, student of New Horizon College of Engineering hereby declare that, this internship work entitled “**Design an Endpoint to perform the Generation of the Account Number and transaction in prototype bank Application**” is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



GAURAV P KUMAR

1NH19EE040

20EEE83A-Internship

ACKNOWLEDGEMENT

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I express my warm thanks to my project guide **Prof. Karthika M**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

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CERTIFICATE FROM INDUSTRY/COMPANY



K-AKA TECHNOLOGY SERVICES

7631930496 

Certificate ID: KTS/CERTIFICATE/2023/59107

info@k-akatechnology.in 

Intern ID: KTS4825

www.k-akatechnology.in 

Ref ID: KTS/INTERNSHIP/2023/KTS4825

Date: 10/05/2023

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Gaurav P Kumar (INH19EE040), a student of "Electrical and Electronics Engineering" from "New Horizon College Of Engineering" He has completed internship work on the "Software Development Using Python JAVA" and He has worked on a project titled "Design an REST API for performing the CRUD Operation in Database in prototype bank Application" at "K-AKA Technology Services (KTS) from 05th February 2023 to 25th March 2023 under the guidance of Mr. Abhinav, Software Engineer. During the period of his internship program with us, He was found punctual and creative.



Internship/Project Guide

K-AKA TECHNOLOGY SERVICES



Head

K-AKA Technology Services



No.10, 6th Cross, 3rd Block, Behind Dominos, Nandini Layout, Bangalore, Karnataka-(560043)

20EEE83A Internship
INTERSHIP IMAGES

INTERSHIP TITLE: “Design a REST API for performing the CRUD
Operation in Database prototype bank Application

GAURAV P KUMAR 1NH19EE040

Under the Guidance of

Prof. Karthika M





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

FIRE CONTROL PANEL BOARD WIRING

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

PRAJWAL R M

1NH20EE407

Under the Guidance of
Prof. VINOD KUMAR S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
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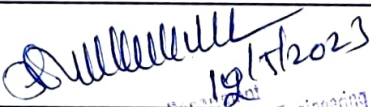
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE


Certified that the internship work entitled "**FIRE CONTROL PANEL BOARD WIRING**" carried out by PRAJWAL R M (1NH20EE407), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering**, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Mr. Vinod Kumar S	Dr. Sujitha S Head of the Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubesanahalli, Bellandur Post, Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


Dr. Raghu N
External Examiner
Jain University

DECLARATION

I **PRAJWAL R M** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**FIRE CONTROL PANEL BOARD WIRING**” is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University,Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

PRAJWAL R M
1NH20EE407

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. VINOD KUMAR S**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co- operation the completion of Internship would not have been possible.

PRAJWAL R M
1NH20IEE407

CERTIFICATE FROM INDUSTRY/COMPANY

GSTIN:29AA0FV3613L1ZL

Mob: 9741356678



Vigneshwara Industries

Mfd. Fire Control Panel & Fabrication

58, 17th Cross, Near, Nadakerappa Industrial, Vinayaka Nagar, Andrahalli Main Road,
Bangalore - 560091. E-Mail: vigneshwaraindustries16@gmail.com

Date: 27/04/2023

INTERNSHIP COMPLETION CERTIFICATE

We are glad to inform you that Mr. Prajwal R.M from New Horizon College of Engineering has successfully completed his Internship at Vigneshwara Industries. From 26 Feb 2023 - 25 Apr 2023.

During his Internship, he was exposed to the various activities in Fire Panel Board Wiring.

We found him extremely inquisitive and hard working. He is very much interested to learn the functions of our core division and also willing to put his best efforts and get in to the depth of the subject to understand it better.

His association with us was very faithful and we wish him all the best in his future endeavors.

For Vigneshwara Industries

VIGNESHWARA INDUSTRIES

58, 17th Cross,
Near Nadkerappa Indl. Estate,
Vinayaka Nagar, Andrahalli
Main Road, BANGALORE-560091.

Authorized Signatory

20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: FIRE CONTROL PANEL BOARD WIRING

STUDENT 1 PRAJWAL R M 1NH20EE407

Under the Guidance of

Prof. VINOD KUMAR S





NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

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Accredited by NAAC with 'A' Grade. Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

SOFTWARE DEVELOPMENT USING PYTHON JAVA

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

POOJITH N

1NH19EE087

Under the Guidance of

GUNAPRIYA B

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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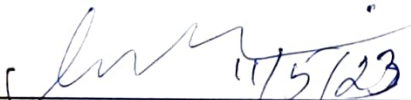

Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled **"SOFTWARE DEVELOPMENT USING PYTHON JAVA"** carried out by **POOJITH N (1NH19EE087)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

 11/5/23	 9/11/23
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Gunapriya B	Dr. Sujatha S Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post, Bangalore - 560103, Karnataka, India

SEMESTER ENDEXAMINATION


11/5/23

Internal Examiner

Dr. A. Y. S. S.


11/5/23

External Examiner

Dr. Raghu. N

Jain university

DECLARATION

I **POOJITH N** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**SOFTWARE DEVELOPMENT USING PYTHON JAVA**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

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POOJITH N

1NH19EE087

20EEE83A-Internship

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CERTIFICATE FROM INDUSTRY/COMPANY



K-AKA TECHNOLOGY SERVICES

7631930496

Certificate ID: KTS/CERTIFICATE/2023/98108

info@k-akatechnology.in

Intern ID: KTS4579

www.k-akatechnology.in

Ref ID: KTS/INTERNSHIP/2023/KTS4579

Date: 10/05/2023

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Poojith N (1NH19EE087), a student of "Electrical and Electronics Engineering" from "New Horizon College Of Engineering" He has completed internship work on the "Software Development Using Python JAVA" and He has worked on a project titled "Understand and Create Spring Boot Application for Generation of the Account Number in prototype bank Application" at K-AKA Technology Services (KTS) from 05th February 2023 to 25th March 2023 under the guidance of Mr. Abhinav, Software Engineer. During the period of his internship program with us, He was found punctual and creative.

Internship/Project Guide

Head

K-AKA Technology Services



No 10, 6th Cross, 3rd Block, Behind Dominos, Nandini Layout, Bangalore, Karnataka-(560043)



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**20EEE83A-Internship
Report on**

**Design a REST API for and perform QA Testing for a prototype bank
application**

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

ANKIT KUMAR

1NH19EE016

Under the Guidance of
Prof. Karthika M

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

"JnanaSangama", Belgaum: 590018





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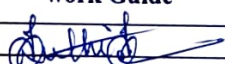
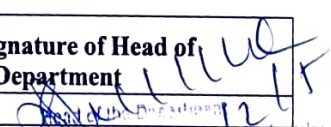
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


CERTIFICATE


Certified that the internship work entitled **“Design a REST API for and perform QA Testing for a prototype bank application”** carried out by **ANKIT KUMAR(1NH19EE016)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum** during the Year 2022-23.

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Name & Signature of the internship work Guide	Name & Signature of Head of the Department
	
Prof. Karthika M	Dr. SUJITHA.S Department of Electrical Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post. Bengaluru - 560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner
12/5/23


External Examiner
Dr. Raghun.
Jain university

20EEE83A-Internship

DECLARATION

I **ANKIT KUMAR**, student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Design a REST API for and perform QA Testing for a prototype bank application**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



ANKIT KUMAR

1NH19EE016

20EEE83A-Internship

ACKNOWLEDGEMENT

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Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



K-AKA TECHNOLOGY SERVICES

7631930496

Certificate ID: KTS/CERTIFICATE/2023/21068

info@k-akatechnology.in

Intern ID: KTS5103

www.k-akatechnology.in

Ref ID: KTS/INTERNSHIP/2023/KTS5103

Date: 10/05/2023

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Ankit Kumar (1NH19EE016)**, a student of "**Electrical and Electronics Engineering**" from "**New Horizon College Of Engineering**" He has completed internship work on the "**Software Development Using Python JAVA**" and He has worked on a project titled "**Design an REST API for and Perform QA Testing for an prototype bank Application**" at **K-AKA Technology Services (KTS)** from **05th February 2023 to 25th March 2023** under the guidance of **Mr. Abhinav**, Software Engineer. During the period of his internship program with us, He was found punctual and creative.

Internship Project Guide

Head

K-AKA Technology Services



No.10, 6th Cross, 3rd Block, Behind Dominos, Nandini Layout, Bangalore, Karnataka-(560043)

20EEE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: “Design a REST API for and perform QA Testing for a
prototype bank application”**

ANKIT KUMAR

1NH19EE016

Under the Guidance of

Prof. Karthika M





NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

CAPGEMINI VLSI TRAINING

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**CHARISHMA A
1NH19EE023**

Under the Guidance of
Dr. Vinoth Kumar K

2022-23

**VISVESVARAYA
TECHNOLOGICAL UNIVERSITY**

"Jnana Sangama", Belgaum: 590018





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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

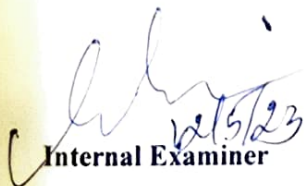
CERTIFICATE

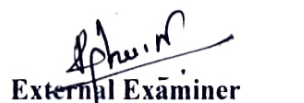
Certified that the internship work entitled "**CAPGEMINI VLSI TRAINING**" carried out by **CHARISHMA A(1NH19EE023)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in The department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Dr. Sujatha S New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur, Bengaluru-560103, Karnataka, India

SEMESTER END EXAMINATION


Internal Examiner


External Examiner
Dr. Raghu N
Jain University

DECLARATION

I **Charishma A** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**Capgemini Vlsi training**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University,Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

A. Charishma

CHARISHMA A

1NH19EE023

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. VINOTH KUMAR K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM COMPANY



CERTIFICATE OF RECOGNITION

This certificate is awarded to

Charishma A

For participating in the VLSI Phase 1 Training
conducted from the month of January - March 2023

Murali Krishna Pulamarasettybala

MURALI KRISHNA PULAMARASETTYBALA
Vice President

Prasad Shetye

PRASAD SHETYE
Executive Vice President



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

DIGITAL TRANSFORMATION FOR TATA STEEL LIMITED

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

**MARUTHI B
1NH19EE071**

Under the Guidance of
Dr. VINOTH KUMAR K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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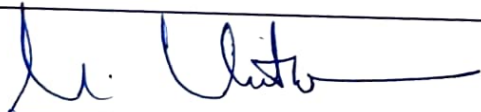
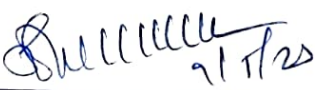
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

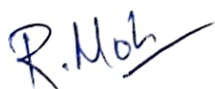
CERTIFICATE

Certified that the internship work titled "**DIGITAL TRANSFORMATION FOR TATA STEEL LIMITED**" carried out by **MARUTHI B(INH19EE071)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the ward of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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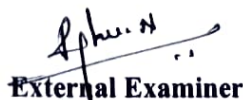
	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Dr. Vinoth Kumar K	Dr. Sujitha S Head of Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Bengaluru - 560103, Karnataka, India

SEMESTER ENDEXAMINATION



Internal Examiner

Dr. R. Mohan Das



External Examiner

Dr. Raghu N

Jain University

20EEE83A-Internship

DECLARATION

I **Maruthi B** student of New Horizon College of Engineering hereby declare that, this internship work entitled “**DIGITAL TRANSFORMATION FOR TATA STEEL LIMITED**” is original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.



MARUTHI B
1NH19EE071

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Dr. Vinoth Kumar K**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

20EEE83A Internship
INTERNSHIP IMAGES

**INTERNSHIP TITLE: DIGITAL TRANSFORMATION FOR
TATA STEEL LIMITED**

MARUTHI 1NH19EE071

Under the Guidance of

Dr. Vinoth Kumar K



STEEL LOADED TO RAKE



STEEL



NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Ballandur, Bangalore – 560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EEE83 Internship

Report on

MBG - Customer experience - v1

Submitted in the partial fulfillment of the Final Year Internship

Submitted by

NAVEEN R N 1NH19EE080

Guided by

Mr. SUNIL S K

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum: 590018





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

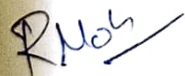
Certified that the internship work entitled “MGB – customer experience – v1” carried out by NAVEEN R N (1NH19EE080), benefice Student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in Department of Electrical and Electronics Engineering, New Horizon College of Engineering of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	 9/5/23	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department	Signature of Principal
Mr. SUNIL S K	Dr. SUJITHA S	Dr. MANJUNATHA

Head of the Department
Department of Electrical and Electronics Engineering
New Horizon College of Engineering
Ring Road, Kadubisenahalli, Outer Post,
Bangalore - 560103, Karnataka, India.

SEMESTER END EXAMINATION



Internal Examiner

Dr. R. Muthaiah



External Examiner

Dr. Raghu

Tain university

DECLARATION

I NAVEEN R N student of New Horizon College of Engineering hereby declare that, this internship work entitled “MGB – Customer experience – v1” is an original and benefice work carried out by me at New Horizon College of Engineering in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Navleen

NAVEEN R N

1NH19EE080

CERTIFICATE FROM ORGANISATION



13-Jan-2023

Candidate ID: 24196583

Naveen R N
B.E. Electrical & Electronics Engineering
New Horizon College of Engineering, Bangalore

Dear Naveen R N,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship on premises with us for a period of 3 to 6 months. Your Internship onboarding will be scheduled based on your availability factoring your college exam schedule and our business requirements.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Though Cognizant Internship is a pre-requisite skill and capability development program, it does not guarantee employment and there is no employer – employee relationship during the course of this internship program. However, the successful completion of internship will form a critical part of your eligibility for employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 10 hours per day from Monday through Friday aligned to the working timings followed in Cognizant which based on the need could also be operated on a shift model. Attendance is mandatory on all the days to stay active in the Internship Program. The Intern Offer would be terminated if the mandatory requirement of minimum 90% attendance at office is not met in a month.
- Interns are covered under Cognizant's calendar holidays of the respective location of Internship, and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program and internship would be terminated if leaves are availed without prior approvals.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions failing which your internship would be terminated.
- The Technical skills track mapped could change at the start or mid-way or even later during the program depending on business demand changes and you would be required to be flexible for this change failing which your internship would be terminated.
- After successful completion of your Internship if there is a business demand which expects you to get skilled on a different skill, you would be expected to get skilled in that demand failing which your Full Time Offer would be cancelled / withdrawn.

Regd Office: 115/535, Old Mahabalipuram Road, Okkiam Thoraipakkam, Chennai - 600 097



• Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion. Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend payment and tenure spent will not guarantee your monthly stipend payment.

• There would be zero tolerance to plagiarisms and misconduct during the internship. Adherence to Cognizant Internship policies and guidelines is mandatory and any breach of incident reported will lead to immediate cancellation of Internship without any notice.

• During the course of your Internship and at all times, you shall be governed by Cognizant's Social Media Policy and shall, refrain from posting malicious, libelous, defamatory, false, obscene, political, anti-social, abusive, and threatening messages/statements or disparaging the Company, clients, associates, competitors, or suppliers or any third parties, irrespective of whether any such statements are likely to cause damage to any such entity or person. Any breach of this section would lead to immediate termination of the Internship and revocation of the Employment Offer/Agreement.

• Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time.

At the time of your reporting for the internship, you will be required to sign a Non - Disclosure Agreement with the company. During the course of your Internship and after completion of the same, you are required to maintain strictest confidentiality with respect to company proprietary or products that you access or come into contact with, during your project as an Intern, at all times as per our Policy. Use of company proprietary information or products shall not be made without prior permission from the concerned authority. Any breach of information security will be dealt as per Company Policy.

This offer from Cognizant shall be active and valid for only 3 calendar days and hence you are expected to accept or decline the offer through the company's online portal within the said time-period of 3 calendar days and you will also be required to submit the mandatory documents at least 7 days before your Internship Onboarding Date as part of your Pre-joining & Background Verification (BGV) process. In case you don't comply to the above timelines, this Offer shall stand withdrawn and will be considered as cancelled. Any official written extension to the offer validity and the above-mentioned timelines will be at the sole discretion of Cognizant.

Below are the mandatory documents to be submitted as part of your **Background Verification**:

- Your Pan Card
- Letter of Authorization (LOA) which should be downloaded from the BGV application hand signed with your name and date and reuploaded back to the application

Below are the mandatory documents to be submitted as part of your **Pre-joining formalities**:

- 2 Passport sized Photographs preferably with a Grey / White background
- Personal individual bank account from a nationalized bank for processing stipend

Please do not hesitate to call us for any information you may need.
We wish you good luck.

Yours sincerely,

For Cognizant Technology Solutions India Pvt. Ltd.,

Maya Sreekumar
Vice President - Human Resources

I have read the offer, understood and accept the above mentioned terms and conditions.

Signature:

Date:



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

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Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

PYTHON DEVELOPER

Submitted in the partial fulfilment of the Final Year Internship

Submitted by
DECHAMMA V.S
1NH19EE027

Under the Guidance of
Prof. VINOD KUMAR S

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum: 590018





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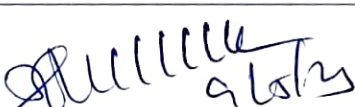
Outer Ring Road, Bellandur, Bengaluru-560103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the internship work entitled "**PYTHON DEVELOPER**" carried out by **DECHAMMA V S (1NH19EE027)**, bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

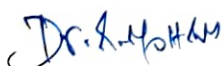
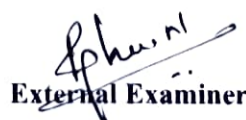
It is certified that all the corrections / suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for said Degree.

	
Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Prof. Vinod Kumar S	Dr. Sujatha S Head of the Department Department of Electrical and Electronics Engineering New Horizon College of Engineering Ring Road, Kadubisanahalli, Bellandur Post Bangalore - 560102, Karnataka, India

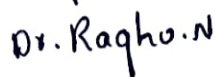
SEMESTER END EXAMINATION



Internal Examiner

External Examiner



Tain university

20EEE83A-Internship**DECLARATION**

I **DECHAMMA V S** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**PYTHON DEVELOPER**" is an original and bonafide work carried out by me at New Horizon College of Engineering, Bengaluru in partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

**DECHAMMA V S****1NH19EE027**

20EEE83A-Internship

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has let to the successful completion of the Internship.

We grateful to the Chairman of New Horizon Educational Institution, **Dr.MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr.MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof.Vinod Kumar S**, Dept. of Electrical and Electronic Engineering, New Horizon College of Engineering for his/her skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support through out the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



Reference No - 14131759

21-April-2023

To Whomsoever It May Concern

This to certify that **Ms. Dechamma V S** successfully completed her internship with **Cargill Business Services India Private Limited** from 13-February-2023 to 14-April-2023.

She worked on the following Project during this internship.

"Data Quality Tool and AD group extraction."

We would like to wish her the very best for her future endeavors

For **Cargill Business Services India Private Limited**,

YESHODHA

Digitally signed by YESHODHA
MURTHY

MURTHY

Date: 2023.04.24 11:38:22
+05'30'

Yeshodha Murthy

GHRS Lead - HR Operations, South Asia

Page 1 of 1

Cargill Business Services India Private Limited

CIN: U15440DL1998PTC118000

Registered Office: Y - 05, Ground Floor,

Haus Khas New Delhi- 110016, India

SEZ Office: SEZ-CESSNA Business Park,
3rd Floor, Building B9, B10, Kadubeesanahalli,
Bangalore - 560103, (Karnataka), India
Tel: +91-080 4614 8000 / 49463400

[Certificate link](#)

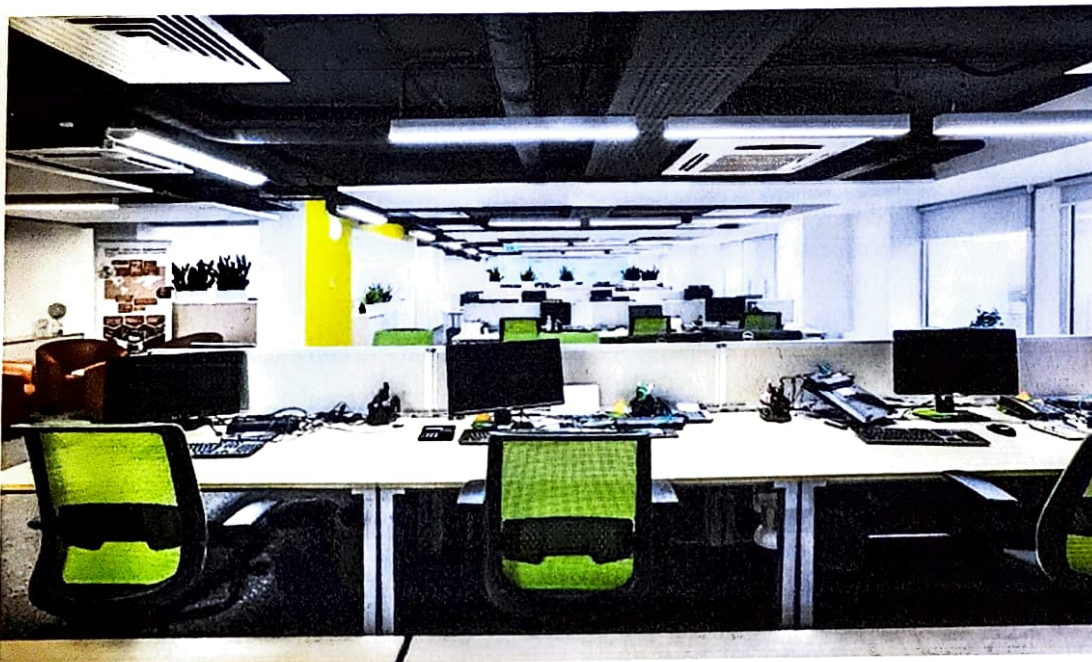
20EEE83A Internship
INTERNSHIP IMAGES

INTERNSHIP TITLE: PYTHON DEVELOPER

DECHAMMA V S 1NH19EE027

Under the Guidance of

Prof. Vinod Kumar S





NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

20EEE83A-Internship

Report on

DECIBEL INTERN PROGRAM

Submitted in the partial fulfilment of the Final Year Internship

Submitted by

ANOOPKUMAR H S

1NH19EE018

Under the Guidance of

Prof. Mr. SATISHKUMAR D

2022-23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JnanaSangama”, Belgaum:590018





NEW HORIZON COLLEGE OF ENGINEERING

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CERTIFICATE

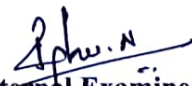
Certified that the internship work entitled "**DECIBEL INTERN PROGRAM**" carried out by ANOOPKUMAR H S (1NH19EE018), bonafide student of New Horizon College of Engineering submitted report in the partial fulfillment for the award of Bachelor of Engineering in **Department of Electrical and Electronics Engineering, New Horizon College of Engineering** of Visvesvaraya Technological University, Belgaum during the Year 2022-23.

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Name & Signature of the internship work Guide	Name & Signature of Head of the Department
Mr. SATISH KUMAR D 	Dr. Sujitha.S 

SEMESTER END EXAMINATION


Internal Examiner


External Examiner

Dr. Raghu.N
Jain university

20EEE83A-Internship

DECLARATION

I **ANOOPKUMAR H S** student of New Horizon College of Engineering hereby declare that, this internship work entitled "**DECIBEL INTERN PROGRAM**" is an original and bonafide work carried out by meat New Horizon College of Engineering, Bengaluruin partial fulfillment of Bachelor of Engineering in Electrical and Electronics Engineering of Visvesvaraya Technological University, Belgaum.

I also declare that, to the best of my knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.


ANOOPKUMAR H S

1NH19EE018

ACKNOWLEDGEMENT

I take this opportunity to convey my gratitude to all those who have been kind enough to offer their advice and provide assistance when needed which has led to the successful completion of the Internship.

We are grateful to the Chairman of New Horizon Educational Institution, **Dr. MOHAN MANGHNANI** for providing with infrastructural facilities and many other resources needed for our Internship. I would like to express my immense gratitude to our principal, **Dr. MANJUNATHA** for motivating us to carry out research in the NHCE and **Dr. SUJITHA.S**, Head of the department for their constant support and motivation that has encouraged me to come up with this project and also for providing the right ambience for carrying out the work and the facilities provided to me.

I express my warm thanks to my project guide **Prof. SATISHKUMAR D**, Dept. of Electrical and Electronics Engineering, New Horizon College of Engineering for his skillful guidance, constant supervision, timely suggestion and constructive criticism in successful completion of my Internship in time.

I wish to thank all the faculty of Electrical and Electronics Engineering department for providing required support throughout the Internship.

I would like to thank my parents for supporting and helping in the completion of the Internship.

Last but not the least I would like to thank all my friends without whose support and co-operation the completion of Internship would not have been possible.

CERTIFICATE FROM INDUSTRY/COMPANY



**DECIBEL ENGINEERING
SYSTEMS AND ASSOCIATES**

Date: 24 /04/2023

CERTIFICATE

This is to certify that **Mr. Anoopkumar H S, [USN 1NH19EE018]** pursuing BE Electrical and Electronics Engineering at "New Horizon College of Engineering" has successfully completed his Internship in our organization from **15/02/2023 to 20/04/2023**.

During internship his work ethics and conduct was found Satisfactory.

We wish him all the best for his future endeavors.

For DECIBEL ENGINEERING SYSTEMS AND ASSOCIATES

A handwritten signature in blue ink, appearing to be "Nagesha D A", with a horizontal line extending to the right.

(NAGESHA D A)