

Guru Nanak Dev Engineering College

Mailoor Road, Bidar, KA – 585403

Approved by AICTE New Delhi and Affiliated to VTU Belagavi

<u>Criterion 1 – Curricular Aspects</u> Department of E&EE

INDEX: PROJECT AND INTERNSHIP

1	3GN19EE010	MD SOHAIL KHAN	MINI PROJECT	EEE
	JOINITELLOTO	WID SOTT TIE THE TELL	MINI	EEE
2	3GN19EE024	SHAIK MUZAFFER	PROJECT	EEE
_			MINI	EEE
3	3GN20EE404	SARDAR NAVJEET SINGH	PROJECT	
4			MINI	EEE
4	3GN20EE403	R NAGA SUJEET	PROJECT	
5			MINI	EEE
	3GN19EE031	SWATIN	PROJECT	
6			MINI	EEE
0	3GN19EE037	VIJAYLAXMI	PROJECT	
7			MINI	EEE
7	3GN19EE028	SOUMYA	PROJECT	
8			MINI	EEE
8	3GN19EE033	TABASSUM	PROJECT	
0			MINI	EEE
9	3GN19EE025	SHUBHASHU	PROJECT	
10			MINI	EEE
10	3GN18EE047	TEJASHWINI	PROJECT	
1.1			MINI	EEE
11	3GN18EE049	VAISHNAVI	PROJECT	
10			MINI	EEE
12	3GN19EE018	ROHAN	PROJECT	
10			MINI	EEE
13	3GN19EE008	MANJUNATH	PROJECT	
4.4			MINI	EEE
14	3GN19EE030	SURYAPRAKASH	PROJECT	
4 =			MINI	EEE
15	3GN19EE005	GIRISH	PROJECT	
			MINI	EEE
16	3GN19EE026	SIDRAMESH	PROJECT	
17			MINI	EEE
	3GN19EE003	DEEPAK P	PROJECT	
18			MINI	EEE
	3GN19EE039	ZAHEER	PROJECT	
19	2 31 (1) 22 30)		MINI	EEE
	3GN19EE011	NAGRAJ	PROJECT	
	JOHIJELOH	1111011111	INOSECI	

20	3GN19EE035	VENCHAR SAM	MINI PROJECT	EEE
21	3GN19EE020	SACHIN K	MINI PROJECT	EEE
22	3GN19EE002	ANAND	MINI PROJECT	EEE
23	3GN19EE022	SAIPRASAD	MINI PROJECT	EEE
24	3GN19EE023	SANGAMESH	MINI PROJECT	EEE
25	3GN19EE029	SRIDUTT	MINI PROJECT	EEE
26	3GN20EE406	VIKAS	MINI PROJECT	EEE
27	3GN18EE003	ABINEZER	MINI PROJECT	EEE
28	3GN19EE036	VENKATESH	MINI PROJECT	EEE
29	3GN19EE021	SAI MAGHA	MINI PROJECT	EEE
30	3GN19EE016	PRIYADARSHINI	MINI PROJECT	EEE
31	3GN19EE012	POOJA	MINI PROJECT	EEE
32	3GN19EE034	VAIJAYANTI	MINI PROJECT	EEE
33	3GN19EE027	SINDHU	MINI PROJECT	EEE
34	3GN19EE019	SACHIN .G	MINI PROJECT	EEE
35	3GN19EE032	SWATI B	MINI PROJECT	EEE
36	3GN20EE400	AMOL	MINI PROJECT	EEE
37	3GN19EE004	DEEPAK R	MINI PROJECT	EEE
38	3GN20EE401	HARIVISHNU	MINI PROJECT	EEE
39	3GN19EE006	GOWRE SUDARSHAN	MINI PROJECT	EEE
40	3GN18EE036	SHARANKUMAR	MINI PROJECT	EEE
41	3GN20EE405	SILVIA	MINI PROJECT	EEE
42	3GN20EE402	PALLAVI	MINI PROJECT	EEE

43	3GN19EE014	PREETI	MINI PROJECT	EEE
44	3GN16EE010	DINAKUMARI	INTERNSHIP	EEE
45	3GN17EE004	AKHILESH B	INTERNSHIP	EEE
46	3GN17EE022	NITESH KIRAN	INTERNSHIP	EEE
47	3GN17EE024	PAVAN	INTERNSHIP	EEE
48	3GN17EE033	RANJITA	INTERNSHIP	EEE
49	3GN17EE043	SUSHMA DONGRE	INTERNSHIP	EEE
50	3GN17EE047	VIJAYLAXMI DILIP	INTERNSHIP	EEE
51	3GN17EE048	HARISH REDDY	INTERNSHIP	EEE
52	3GN18EE001	ABHISHEK	INTERNSHIP	EEE
53	3GN18EE002	ABHISHEK	INTERNSHIP	EEE
54	3GN18EE004	AISHWARYA	INTERNSHIP	EEE
55	3GN18EE006	AMBRESH	INTERNSHIP	EEE
56	3GN18EE007	ASHA	INTERNSHIP	EEE
57	3GN18EE008	ASHWINI	INTERNSHIP	EEE
58	3GN18EE009	BHAGYASHREE	INTERNSHIP	EEE
59	3GN18EE010	BHAGYSHREE	INTERNSHIP	EEE
60	3GN18EE011	BHAGYASHREE P	INTERNSHIP	EEE
61	3GN18EE012	BHAGYASHRRE G	INTERNSHIP	EEE
62	3GN18EE013	GAGANDEEP SINGH	INTERNSHIP	EEE
63	3GN18EE014	JOHNSON	INTERNSHIP	EEE
64	3GN18EE015	KAVYA	INTERNSHIP	EEE
65	3GN18EE017	KRATIK	INTERNSHIP	EEE
66	3GN18EE020	MAHADEV	INTERNSHIP	EEE
67	3GN18EE021	MAHESH BEVINKATTI	INTERNSHIP	EEE
68	3GN18EE024	MD SHOEB	INTERNSHIP	EEE
69	3GN18EE025	MOHD AZHAR	INTERNSHIP	EEE
70	3GN18EE026	NIKITA	INTERNSHIP	EEE
71	3GN18EE028	P SHARADHA	INTERNSHIP	EEE
72	3GN18EE029	PRAVEENKUMAR	INTERNSHIP	EEE
73	3GN18EE030	PRIYA	INTERNSHIP	EEE
74	3GN18EE031	PURUSHOTTAM	INTERNSHIP	EEE
75	3GN18EE032	RANJITA B R	INTERNSHIP	EEE
76	3GN18EE033	SHAIK ADNAN	INTERNSHIP	EEE
77	3GN18EE034	SHAILAJA	INTERNSHIP	EEE
78	3GN18EE035	SHAMBHAVI	INTERNSHIP	EEE
79	3GN18EE037	SHARAN RAJASHEKAR	INTERNSHIP	EEE
80	3GN18EE040	SHIVKUMAR	INTERNSHIP	EEE
81	3GN18EE041	SHWETA HANGARGE	INTERNSHIP	EEE

82	3GN18EE042	SIDDHARTH	INTERNSHIP	EEE
83	3GN18EE043	SUMAN HOSMANI	INTERNSHIP	EEE
84	3GN18EE044	SWATI	INTERNSHIP	EEE
85	3GN18EE045	SYED AHMED ULLA	INTERNSHIP	EEE
86	3GN18EE046	SYED ZEESHAN	INTERNSHIP	EEE
87	3GN18EE048	VAIBHAV VANGAPALLI	INTERNSHIP	EEE
88	3GN18EE050	VARUNKUMAR	INTERNSHIP	EEE
89	3GN18EE051	VEERSHETTY	INTERNSHIP	EEE
90	3GN18EE052	VIJAYLAXMI PATIL	INTERNSHIP	EEE
91	3GN19EE400	ANKUSH	INTERNSHIP	EEE
92	3GN19EE401	GANGA	INTERNSHIP	EEE
93	3GN19EE402	GURUNATH	INTERNSHIP	EEE
94	3GN19EE403	MANJUNATH S	INTERNSHIP	EEE
95	3GN19EE404	NAGESH	INTERNSHIP	EEE
96	3GN19EE405	RENUKA	INTERNSHIP	EEE
97	3GN19EE406	SABA SAMREEN	INTERNSHIP	EEE
98	3GN19EE407	SHIVALING SWAMY	INTERNSHIP	EEE
99	3GN19EE408	SHRUTI GADBALLI	INTERNSHIP	EEE
100	3GN19EE409	SRINATH	INTERNSHIP	EEE
101	3GN19EE410	VIJAYKUMAR	INTERNSHIP	EEE
102	3GN16EE020	MOHAMMED IMRAN	INTERNSHIP	EEE
103	3GN16EE035	SHAIK PARWAZ AHMED	INTERNSHIP	EEE
104	3GN17EE008	AVINASH BADIGER	INTERNSHIP	EEE
105	3GN17EE015	KRISHNA SAIGAL	INTERNSHIP	EEE
106	3GN17EE038	SANTOSH REDDY	INTERNSHIP	EEE
107	3GN17EE042	SUHASINI MELDODDI	INTERNSHIP	EEE
108	3GN18EE400	ABDULHAMEED NADAF	INTERNSHIP	EEE
109	3GN18EE405	BHANDARI APPARAO	INTERNSHIP	EEE
110	3GN18EE417	VIVEKANAND	INTERNSHIP	EEE
111	3GN17EE017	MAHESH	INTERNSHIP	EEE
112	3GN14EE018	LAXMIKANT	INTERNSHIP	EEE
113	3GN16EE034	SHAH MUQEEM ULLA QUADRI	INTERNSHIP	EEE
114	3GN17EE409	RADHIKA J.BURE	INTERNSHIP	EEE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

GURU NANAK DEV ENGINEERING COLLEGE

BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Mini project report entitled "DIGITAL TACHOMETER" is a bonafide work carried out by MD SOHAIL KHAN (3GN19EE010), SHAIK MUZAFFER (3GN19EE024), SARDAR NAVJEET SINGH (3GN20EE404), R NAGA SUJEET JOSHI (3GN20EE403). In partial fulfillment for the award of Bachelor of Engineering in ELECTRICAL&ELECTRONICS ENGINEERING from the Visvesvaraya Technological University, Belagavi During the year 2021-2022:It is certified that the mini project Report satisfies the academic requirement in respect of mini project work prescribed for the Bachelor of Engineering degree.

Signature of HOD

Signature of Principal

Prof. PRAKASH UDGIRE

Dr. NEELSHETTY K

DR.DHANNJAY D MUKTEDAR

SECTIVATION CONTRACTOR DONATE

BIDAR

NAME OF EXAMINERS

1. SHUBHA.S

2. G. Prashant

A "DIGITAL TACHOMETER" made purely from electronic components and is used to measure the speed of an engine or any other moving object in revolutions per minute and is also known as an electronic tachometer. Electronic tachometers are used in the dashboard of a car for measuring the driving speed. These tachometers are light weight, easy to view and accurate under all conditions. They are usually not portable A Digital RPM Meter is a measuring instrument which can measure the rotational speed of a rotary machine digitally. In industries we can use this type of digital tachometers which will reduce human effect. The industrial name of this instrument is "Tachometer". It is an important measuring device in the field of electrical engineering & widely used in industries and laboratorial work. Here we are going to design an Aurdino based digital tachometer using IR sensor module to detect object for count rotation of any rotating body and the programming is given by the FTDI programmer. As IR transmits IR rays which reflect back to IR receiver and then IR Module generates an output or pulse which is detected by the aurdino controller when we press start button. It counts continuously for 5 seconds.

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Mini project report entitled "SMART BUILDING USING IR SENSOR" is a bona fidework carried out by VIJAYLAXMI(3GN19EE037), SOUMYA(3GN19EE028), SWATI(3GN19EE031), TABASSUM(3GN19EE033). In practical fulfillment for the award of Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING from the Visvesvaraya Technological University, Belagavi During the year 2021-2022. It is certified that the mini project Report satisfies the academic requirement in respect of seminar work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Mrs. SHUBHA KULKARNI

Signature of HOD Dr. NEELSHETTY.K Signature of Principal

Dr. DHANANJAY D M

Guru Nenak Dev Enge College Signature with Date

Name of the Examiner

L SHUBHAS

2. G. Poaskart.

PRINCIPAL

The "Smart building" concept is based on embedded system and IoT (Internet of Things) Technology. The presented model includes different features using which we can automate various tasks in our workplaces. The smart lighting system activate according to the natural light intensity available and human presence in the building. Smart Dustbins, which require less maintenance by opening when it detects human. Smart Watering systems help in the maintenance of lawns by measuring the soil moisture content. Earthquake detection module is use to warn about an earthquake and other seismic activities. The smart building concept is successfully designed using Arduino and Thing speak server is used for analyze the data.

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Mini project report entitled "ANTI-SLEEP ALARM USING ARDUINO" is a bonafide work carried out by TEJASWINI PATIL (3GN18EE047) (3GN18EE049), ROHAN. C (3GN19EE018), SHUBHANSHU VAISHNAVI KORE (3GN19EE025), in partial fulfillment for the award of Degree of Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING from the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in respect of the mini project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Mrs. MEGHA

Signature of HOD

Dr. NEELSHETTY, K

Signature of Principal

Dr. DHANAN JAYA MUKTEDAR

Guru Nenak Dev Engg. College

Signature with Date

Name of the Examiner

1) SHUBHAS...

21 G. Brashaut

Manak Dev Engg. College, Bidar

Driving to save live time, and money in spite of the conditions around you and the actions of others."-This is the slogan for Defensive Driving. The Objective of this project is to develop a system to keep the vehicle secure and protect it by the occupation of the intruders. Vehicle accidents are most common if the driving is inadequate. These happen on most factors if the driver is drowsy or if he is alcoholic. Driver drowsiness is recognized as an important factor in the vehicle accidents. It was demonstrated that driving performance deteriorates with increased drowsiness with resulting crashes constituting more than 20% of all vehicle accidents. But the life lost once cannot be rewinded. Advanced technology offers some hope avoid these up to some extent. This project involves measure and controls the eye blink using IR sensor. The IR transmitter is used to transmit the infrared rays in our eye. The IR receiver is used to receive the reflected infrared rays of eye. If the eye is closed means the output, of IR receiver is high otherwise the IR receiver output is low.

Accidents due to drowsiness can be controlled and prevented with the help of eye blink sensor using IR rays. It consists of IR transmitter and an IR receiver. The transmitter transmits IR rays into the eye.

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING CERTIFICATE

This is to certify that the Mini project report entitled "ARDUINO MOTION DETECTOR USING PIR SENSOR" is a bonafide work carried out by GIRISH(3GN19EE005), MANJUNATH(3GN19EE008), SIDRAMESH (3GN19EE026), SURYAPRAKASH (3GN19EE030) in partial fulfillment for the award of Degree of Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING, from the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in respect of the mini project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Signature of HOD

PROF.DEEPAK GHODE Dr. NEELSHETTY. K

Signature of Principal

Dr. DHANANJAYA. DM

Guru Nanak Dev Engg. College

Signature with Date

25/07/2022

Name of the Examiner

1) SHUBHAS

2). G. Phashant

PRINCIPAL

PIR Sensor Switch which can detect the Infrared Rays released by human body. The light or any other electrical appliance can be activated automatically by the active presence of a human body within the detection range / coverage area & when there is no presence the light will be deactivated automatically. PIR sensors allow you to sense motion, almost always used to detect whether a human has moved in or out of the sensors range. They are small, inexpensive, low-power, easy to use and don't wear out. For that reason they are commonly found in appliances and gadgets used in homes or businesses. They are often referred to as PIR, "Passive Infrared", "Pyro-electric" or "IR motion" sensors.

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the mini-project entitled "TOUCH ON AND OFF SWITCH" is a bonafide work carried out by DEEPAK PAWAR (3GN19EE003), NAGRAJ NEKAR (3GN19EE011), VENCHERSAM (3GN19EE035) & ZHAHEER (3GN19EE039) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that mini project report satisfies the academic requirement in report of the mini project work described for the Bachelor of Engineering Degree.

Mr. SHRAVAN KUMAR

Signature of Guide

Dr. NEELSHETTY K

Signature of HOD

r. DHANANJAY D

Signature of Principal Gure Manak Dev Engg. College

BIDAR

Name of the Examiner

1) SHUBHAS

2). G. Prashant

Dhave.

Guru Nanak Dev Engg. College, Bid-

Signature with Date

1) 25 07 2022

2)

Touch On and Touch Off sensor switch using 555 timer IC on a breadboard. This circuit uses two pairs of touch conductors to sense and register the touch. One pair of touch conductors (sensors) for turning ON the output and the other pair for turning OFF the output.

You can use any output device like DC motors or AC appliances (like lights or fans) by using a relay at the output of 555 timer IC and by wiring the output device to the relay.

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022 ...



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CERTIFICATE

This is to certify that the mini project entitled "GENERATION OF ELECTRICITY BY WASTE MATERIAL" is a bonafide work carried out by ANANAD SWAMY (3GN19EE002), SACHIN KALE (3GN19EE0020), SAIPRASAD (3GN19EE022) & SANGMESH (3GN19EE023) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in report of the mini project work described for the Bachelor of Engineering Degree.

Mr. DURGA PRASAD

Signature of Guide

Dr. NEELSHETTY K

Signature of HOD

Dr. DHANANJAY D M

Signature of Principal PRINCIPAL
Guiu Manak Day Engg. College

Signature with Date

Name of the Examiner

1) SHOBHAS

2). G. Poasbant

Phone.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

2) (2) 22

The waste materials that are produced daily from different sources can be used to produce energy from which we can get electricity. The conventional fuels required for production of electricity is decreasing day by day and it is very important to find out alternative sources which can be used as the fuel for the production of electricity especially for developing countries like India. This paper discusses waste materials as a renewable energy source. The paper explores the resources we have ready in our hand as well as the advantages and disadvantages of the using of waste materials as a source of electrical energy. The paper also reviews a few waste to energy projects in some other parts of the world and discusses the future of extracting energy from waste materials.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the mini project entitled "VOLTAGE DETECTOR" is a bonafide work carried out by VIKAS (3GN20EE406), VENKATESH (3GN19EE036), SRIDUTT (3GN19EE029) & ABINEZER (3GN18EE003). In partial fulfillment for the award of Bachelor of Engineering in Electrical & Electronics Engineering affiliated from Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in respect of mini project work prescribed for the Bachelor of Engineering degree.

Mr. TVINAY(Asst. Prof.)

Signature of Guide

Name of the Examiner

1) SHUBHAS 2) G. Pawhant Dr. NEELSHETTY K

Signature of HOD

Shuz.

Dr. DHANANJAY D M

Signature of Principal

Gord Manax Dev Engg. College

Signature with Date

PRINCIPAL

Nanak Dev Engg. College, 400

25 1071 2022

Electricity can cause serious injury or even death which is why safety must come first when with electricity or electrical devices. In order to avoid injury, prior to starting work on an electrical box such as an AC mains switch-board or a power supply, for example, you must first verify there is no AC voltage. If you can't completely isolate you device from the supply wires, how can you be sure that there is no voltage remaining? Enter a non-contact AC voltage detector.

There are several options available on the market and they range in price, but in true fashion, with this kit you are able to quickly and create your own non-contact AC voltage detector in less than an hour.

GURU NANAK DEV ENGINEERING COLLEGE ACADEMIC YEAR 2021-2022



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the mini project entitled "FLAME SENSOR USING ARDUINO, LED AND BUZZER" is a bonafide work carried out by POOJA (3GN19EE012), SAINEGHA (3GN19EE021). PRIVADARSHINI (3GN19EE016) in partial

fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in report of the mini project work described for the Bachelor of

Engineering Degree.

PROF.PLASHANT G

Signature of Guide

Dr. NEELSHETTY K

Signature of HOD

Dr. DHANANJAY D M

Signature of Principal

Guru Nanak Dev Engg. College

Signature with Date

Name of the Examiner

1 SHUBHD.S

2) G. Paasbant

Share.

PRINCIPAL

New Engg. College, Bider

8t 16/07/2022

26/02/22

Abstract

Fire detection is the main objective of this project besides surveillance. The aim of the project is to early detection of fire apart from preventive measures to reduce the losses due to hazardous fire. The project mainly is based on image processing and arduino serial communication. In this project, at the user end, the fire images will be feeded in the form of video frames. These images will be further processed by using the software, MATLAB. The proposed system uses RGB and YCbCr color space. The advantage of using YCbCr color space is that it can separate the luminance from the chrominance more effectively than RGB color space, along with this smoke, motion, area detection is also performed using its color characteristics. The proposed system consist of hardware such as arduino, DHT 11 to monitor the Humidity and Temperature. There is a camera for the surveillance. This camera will give a real-time video output to the user on the laptop or computer via a small GUI-graphic user interface which is to be built in MATLAB. Thus the fire will be detected using this model. This project can also be served for security and surveillance applications.

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403, KARNATAKA



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Mini project report entitled "WIRELESS ID CARD ENTRY SYSTEM" is a bonafide work carried out by SACHIN (3GN19EE019) SINDHU (3GN19EE027), SWATI (3GN19EE032), VAIJAYANTI (3GN19EE034), in partial fulfillment for the award of Degree of Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING from the Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in respect of the mini project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Signature of HOD

Signature of Principal

Mrs. ROHINI. D

Dr. NEELSHETTY. K

Dr. DHANANJAYA MUKTEDAR

Guru Nanak Dev Engg. College

miner Signature with Date

Name of the Examiner

i. P. aashant....

PRINCIPAL

Circi Manak Dev Enog. Cillene, Ridar

Initially RFID tags were developed to eventually replace barcodes in supply chains. Their advantages are that they can be read wirelessly and without line of sight, contain more information than barcodes, and are more robust. The paper describes the current technology, including the frequency ranges used and standards. With the increasing ubiquity of RFID tags, however, privacy became a concern. The paper outlines possible attacks that can violate one's privacy and it also describes counter measures. The RFID technology did not stop at item-level tagging. The paper also presents current research that focuses on locating and tracking labeled object that move. Since the uses for RFID tags are so widespread, there is a large interest in lowering the costs for producing them. It turns out that printing tags might become a viable alternative to traditional production.

PRINCIPAL

anal Dev Er ag. College, Bidar

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the mini-project entitled "AUTOMATIC PLANT WATERING SYSTEM" is a bonafide work carried out by HARIVISHNU(3GN20EE401), AMOL(3GN20EE400), GOWRE SUDARSHAN(3GN19EE006) AND DEEPAK(3GN19EE004) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the mini project report satisfies the academic requirement in report of the mini project work described for the Bachelor of Engineering Degree.

Mr. SURESH PATIL (Asst. Prof.)

Dr. NEELSHETTY K

Signature of Guide

Signature of HOD

Dr. DHANANJAY D M

Signature of Principal PRINCIPAL

Guru Hanak Dov Engg. Colleg:

Signature with Date

Name of the Examiner

PRINCIP

Manak Dev Engg, College, Bidar

1) SHOBHAS
2) G Prashant

dar 2822

(07)22

In the present era, food scarcity and water scarcity occur due to the increase in population. In the problem we have to promote the agriculture sector. But water wastage is more in his sector in the form of water logging while watering the agricultural fields through irrigation. Therefore an automatic plant irrigation system has to be designed for the proper water supply in the fields. This paper deals with an automatic plant irrigation system which automatically senses are moisture content of the soil and decide whether irrigation is needed or not and how much water as needed for soil. This system uses AtMega328 microcontroller. It is programmed to sense the moisture content if the soil over a period of time. When the moisture content is less than the limit which is predefined, it will start supplying the desired amount of water till it reaches the limit. So when the soil is dry the pump will automatically water the fields and when the soil is wet the pump will automatically switch off, there by eradicate the need of manpower and conserve the time.

PRINCIPAL PRINCIPAL College, Bidar

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403. KARNATAKA.



DEPARTMENT OF ELECTRICAL& ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Mini project report entitled "ARDUINO TRAFFIC LIGHT SIMULATOR" is a bonafide work carried out by PALLAVI(3GN20EE402), SILVIA(3GN20EE405), PREETI PAWAR(3GN19EE014), SHARAN KUMAR (3GN18EE036). In partial fulfillment for the award of Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING from the Visvesvaraya Technological University, Belagavi During the year 2021-2022. It is certified that the mini project Report satisfies the academic requirement in respect of mini project work prescribed for the Bachelor of Engineering degree.

Signature of Guide

Signature of HOD

Signature of Principal

MRS .BASAMMA.R

Dr.NEELSHETTY.K

Dr.DHANANJAYA.D MUKTEDAR

Guru Nanak Day Engg. College

Signature with Date

Name of the Examiner

1) ... SHUBHA.S.

2). G. Prashant

Dhave:

20/2/22

Rapid advances in scientific understanding and global economic activity have residued in a significant increase in the volume of automotive activity for human and product mobility, necessitating greater road construction. Controls for vehicular movement, as well as controllers, are thus a crucial requirement of modern society. This research aims to construct a microcontroller-based traffic control device to achieve this goal. For this project, the Arduino platform is the microcontroller of choice. A Light Emitting Diode (LED) advertising display has also been added into its implementation to take use of the red light wait period to distribute relevant information or facts, making this idea more effective and productive

PRINCIPAL

🕝 Manak Dx 😤 🔞 College, Bidar



PRINSTON SMART ENGINEERS Certificate of Internship Electrical Design

DINAKUMARI

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN16EE010

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. August 15th to Sept 30th, 2021.



www.prinstonsmart.com

PRTNETPAL A Dev Erug, College,

PSEED2057



Gurn Nanak Dev Engg. College, Bidar

Course4job.com

Empowering and Inspiring future professionals







Ref No: 2021/07/28

Date:30/09/2021

To Whom It May Concern

This is to Certify that Miss/Mr. AKHILESH Bearing USN 3GN17EE004 is a Bonafide Student of GURU NANAK DEV ENGINEERING COLLEGE, BIDAR. STUDYIN ELECTRICAL AND ELECTRONICS ENGINEERING has Undertaken Internship in "EMBEDDED AND IOT" with us from 30th AUGUST 2021 to 30th SEPTEMBER 2021.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd

E CENTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DEL CONTRA DE LA CONTRA DE L

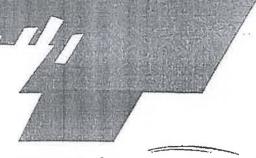
Mr. MALLIKARJUN KUMBAR

DIRECTOR

1274 2nd Floor, Sanitary Core.
3rd phase, Yelahanka New Town.
Bengaluru, Karnataka - 560 064.

TAKE IT SMART







Ref No: 2021/07/28

Date:30/09/2021

To Whom It May Concern

This is to Certify that Miss/Mr. NITESH KIRAN Bearing USN 3GN17EE022 is a Bonafide Student of GURU NANAK DEV ENGINEERING COLLEGE, BIDAR. STUDYIN ELECTRICAL AND ELECTRONICS ENGINEERING has Undertaken Internship in "EMBEDDED AND IOT" with us from 30th AUGUST 2021 to 30th SEPTEMBER 2021.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd

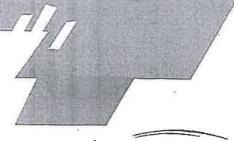
na- na a e e e a dotein keimer a e

Mr. MALLIKARJUN KUMBAR DIRECTOR PRINCIPAL PRINCIPAL CONLEGE, Bidar

1274 2nd Floor, Sanitary Core.

3rd phase, Yelahanka New Town,
Bengaluru, Karnataka - 560 064.







Ref No: 2021/07/28

Date:1/10/2021

To Whom It May Concern

This is to Certify that Miss/Mr PAWAN PATIL Bearing USN 3GN17EE024 is a Bonafide Student of GURUNANK DEV ENGINEERING COLLEGE BIDAR STUDYING ELECTRICAL AND ELECTRONICS ENGINEERING has Undertaken Internship in "EMBEDDED SYSTEM AND IOT" with us from 30th AUGUST 2021 to 30th SEPTEMBER 2021.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd

Mr. MALLIKARJUN KUMBAR

DIRECTOR

PRIN Engg.

1274 2nd Floor, Sanitary Core.

3rd phase, Yelahanka New Town.

Bengaluru, Karnataka - 560 064.

TAKE IT SMART



PRINSTON SMART ENGINEERS

Certificate of Internship Electrical Design

RANJITA CHOUKANPALLI

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN17EE033

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. August 15th to Sept 30th, 2021.





www.prinstonsmart.com





PRINSTON SMART ENGINEERS

Certificate of Internship Electrical Design

SUSHMA DONGRE

GNDEC

3GN17EE043

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

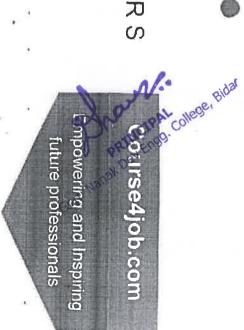
August 15th to Sept 30th, 2021.



PSEED2075



www.prinstonsmart.com







PRINSTON SMART ENGINEERS

Certificate of Internship Electrical Design

VIJAYLAXMI

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN17EE047

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

August 15th to Sept 30th, 2021.



PSEED2063



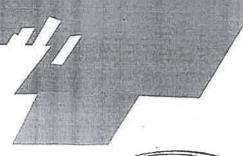
www.prinstonsmart.com

Course4job.cor

Empowering and Inspiring future professionals









Ref No: 2021/07/28

Date:30/09/2021

To Whom It May Concern

This is to Certify Miss/Mr. HARISH REDDY Bearing that 3GN17EE048 is a Bonafide Student GURU NANAK DEV ENGINEERING COLLEGE MAILOOR ROAD BIDAR STUDYING ELECTRICAL AND ELECTRONICS ENGINEERING has Undertaken Internship in "PCB DESIGNING" with us from 30th AUGUST 2021 to 30th SEPTEMBER 2021.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for V PRINCIPAL COMEGE, Bider his/her future.

For, Take it smart (OPC) Pvt.Ltd



Mr. MALLIKARJUN KUMBAR DIRECTOR

1274 2nd Floor, Sanitary Core. 3rd phase, Yelahanka New Town. Bengaluru, Karnataka - 560 064.



TAKE IT SMART



ಿ ನೇರುವಾ ಸಹಕಾಲ ಸಕ್ಕರ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ, ಅವರ

THE NARANJA SAHAKARI SAKKARE KARKHANE LTD; BIDAR

Ref: NSSKB/ADM/2021-22

Date: 07.12.2021

CERTIFICATE

This is to certify that Mr.Abhishek.Y B.E. VII SEM (USN:3GN18EE001), student of Gurú Nanak Dev Engineering College Bidar, has successfully completed his Internship under guidance of Chief Engineer in our organization with in the permitted period of 04 weeks i.e. from 25.09.2021 to 24.10.2021 as a part of curriculum.

He was regular, punctual and attentive during the Training period at our organization.

BIDAR T

For Naranja SSK Ltd,

B.S. Aparanji MA,MBA.LLB Managing Director

Managing Director Naranja S.S.K. Ltd. Imampur-Bidar

PARTINETRAL CONTROLE BICCO

್ರಪ್ರಧ ಕಭೇರಿ ಮತ್ತು ಕಾರ್ಖಾನೆ ; ಇಮಾಮಹೂರ ಗ್ರಾಮ, (ಜನವಾಡ ಹತ್ತಿರ), ವೀದರೆ–585-402, (ಕರ್ನಾಟಕ ರಾಜ್ಯ) ಾಗ್ರNISTRATIVE OFFICE & FACTORY : IMAMPUR VILLAGE, (NEAR JANWADA), T.g. & Dist, Bidar - 585 402, (Kamataka State) - SUBARGA ELECTRICITY SUPPLY COMPANY CANALA



CERTIFICATE

This is to certify that Mr. ABHISHEK (Reg No. USN 3GN18EE002) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like,

" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar.

Superint/francit miser (Ele.) O&M Wrote GESCOM BIDAR

Place: Bidar.

Date: 12-10-2021

PPLY COMPANY LIMIT JUBARGA ELECTRICIT



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Kum. AISHWARYA (Reg No. USN 3GN18EE004) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from

as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending/Engineer (Ele.) O&M, Circle GESCOM BIDAR

Plage Bidar.



Office: 08482-244135 Tele Fax: (O): 08482-244136 E-mail:naranjassk@gmail.com naranjasugar@gmail.com

್ಟ್ ವಿ ನಾರಂಜಾ ಸಹಕಾರಿ ಸಕ್ತರೆ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ, ಅಂದರ THE NARANJA SAHAKARI SAKKARE KARKHANE LTD; BIDAR

Ref: NSSKB/ADM/2021-22

Date: 07.12.2021

CERTIFICATE

B.E. VII certify that Mr.Ambresh (USN:3GN18EE006), student of Guru Nanak Dev Engineering College Bidar, has successfully completed his Internship under guidance of Chief Engineer in our organization with in the permitted period of 04 weeks i.e. from 25.09.2021 to 24.10.2021 as a part of curriculum.

He was regular, punctual and attentive during the Training period at our organization.



For Naranja SSK Ltd,

B.S. Aparani

Managing Director

Managing Directore Merel College Naranja S.S.K. Ltd. Del Englishing

ಆಡಳಿತ ಕನೇರಿ ಮತ್ತು ಕಾರ್ಖಾನೆ : ಇಮಾಮನೂರ ಗ್ರಾಮ. (ಜನವಾಡ ಹತ್ತಿರ). ಬೀದರ–585 402. (ಕರ್ನಾಟಕ ರಾಜ್ಯ) OMINISTRATIVE OFFICE & FACTORY: IMAMPUR VILLAGE, (NEAR JANWADA), Tg. & Dist. Bidar - 585 402. (Karnataka State)

Y SUPPLY COMPANY LIMITA SURARGA ELECTRICIT



No.BORASER SERVED BOLLOW LOUISE "

Date: 12-11 2021

CERTIFICATE

This is to certify that Kum. ASHA (Reg No. USN 3GN18EE007) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 313/21 to 12/10/21 requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, Warner, Relay Testing, Wester assistance and start glier, in the sace at market become a stalled SI Section at the same a commendation of the second section of the section of the section of the second section of the V PRINCIPAL College 3 MITAA Sub-sugarous & Surar prover mant " etc.,"

His/Her conduct and behavior during the above said period was

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending Engine . , 28 / O&M Circle GESCOM BLOAR

Place: Bidar.

SURARGA ELECTRICITY SUPPLY COMPANY LIMITA



CERTIFICATE

This is to certify that Kum. ASHWINI (Reg No. USN 3GN18EE008) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like,

" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. ger (Ele.)

O&M Circle GESCUM PIDAR

Place: Bidar.

SULBARGA ELECTRICITY SUPPLY COMPANY LIMITE

No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date:12-10-2021

CERTIFICATE

This is to certify that Kum. BHAGYASHREE (Reg No. USN 3GN18EE009) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-69 29. 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store, TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant wetc... When Engly College Bider

His/Her conduct and behavior during the above said period was sol

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending Engineer (Ele.) O&M Circle GESCOM BIDAR

Place : Bidar.



टन एस आहं स

क्रमांक / S.No. 181723

MAL SMALL INDUSTRIES CORPORATION LTD लाषु उद्याग निगम-तकनीकी TECHNICAL SERVICES CENTRE सवा केन्द्र

ई.सी.आई.एल एक्स रोड, कुशाईगुडा, हैदराबाद — 500062, तेलगाना, भारत E.C.I.L X Road, Kushaiguda, Hyderabad - 500062, Telangana, India. (भारत सरकार का उद्याप / A Government of India Enterprises)



This is to certify that Mr. / Ms. Bhagyashree son/daughter of Mr. Ravindra pursuing BE in EEE from (College Name) Guru Nanak Dev Engineering College,Bidar Roll No. 3GN18EE010 has successfully completed the Internship Program
pursuing BE in EEE ng College,Bidar sfully completed the Internship Program
vanak Dev Engineering College,Bidar has successfully completed the Internship Program
entitled/in the area of Power System Analysis Using Mi Power
our guidance. It is a bonafide work carried out by her/him from 14/09/2021 to 13/10/2021
He/She has completed the assigned module as per the requirements within the time frame.
During the above period, the trainee's conduct was foundGood
ENA ORIGINA CAS ENA OR

यह अभाग पत्र होलोग्राम लगा खंते के साम्न ही भाग होगा / This Certificate shall be valid only with affixed hologram

Centre Head

Project Coordinator

STEARGA ELECTRICITY SUPPLY COMPANY LIMITA



No:BDR/SFE/FE/CH/A1 FE(O)/2021-22

Date:12-10 2021

CERTIFICATE

This is to certify that Kum. BHAGYASHREE. P. (Reg No. USN 3GN18EE011) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, and anim Relat Texang Ment testing and also Supreme territies, teconors of agents Audit. E.S. Section of Orision & Circles. Discribition transformer repairs. Sion TA & QC visit to 200/110/11. 33 1116. Sub-stations & Solat power plant" etc.,

His/Her conduct and behavior during the above said period was good

Nanak Dev Engg. College Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending 🖂 O&M Circle GESCOM BIDAR

Place: Bidar.

SANGE ELECTRICITY SUPPLY COMPANY.



sa mais surrai pagara paga 202 22

Digit (1-10 202)

CERTIFICATE

This is to certify that Kum. BHAGYASHREEL G. (Reg No. U.S.)

3/GN181-E012) student of Electrical and Electronics Engineering branch of Guru Manak

Dev Engineering college, Bidar has carried out internship in this Circle from

as requested by the Principal GNDEC, Bidar and across the

practices followed in various Sub-divisions of GESCOM, Bidar like. 1(1) Restrict

Relay Testing, Meter Testing and also Vigilanor Actionics. Accounts (Internal

North, EST Section of Division see Circle). Distribution transformer repairs. Store

His/Her conduct and behavior during the above said period was good.

TA & QC, visit to 220/110/11, MILLY Sub-stations & Solst power plant" ex.

PRINCIPAL

and Collone Bidar

Place : Bidar.

Date : 12-10-2021

Superincendbay Engineer (Ele).

OAM Circle, GESCOM, Bidar.

Superintending Engineer

OSM Circle GESCOM BIDAR



Office : 08482-244135 Tele Fax : (0) : 08482-244136 E-mail:naranjassk@gmail.com naranjasugar@gmail.com

್ ನಾರ್ಂತಾ ಕಹಕಾಲಿ ಕಕ್ಷರ ಕಾರ್ಣನೆ ನಿಯಮಿತ, ಅವರ

THE NARANJA SAHAKARI SAKKARE KARKHANE LTD; BIDAR

Ref: NSSKB/ADM/2021-22

Date: 07.12.2021.

CERTIFICATE

This is to certify that Mr.Gagandeep Singh B.E. VII SEM (USN:3GN18EE013), student of Guru Nanak Dev Engineering College Bidar, has successfully completed his Internship under guidance of Chief Engineer in our organization with in the permitted period of 04 weeks i.e. from 25.09.2021 to 24.10.2021 as a part of curriculum.

He was regular, punctual and attentive during the Training period at our organization.

For Naranja SSK Ltd,

B.S. Aparanji MA,MBA.LLB Managing Director

> Managing Director Naranja S.S.K. Ltd. Imampur-Bidar

> > Guru Nanak Dev Engg. Col

. ಆಡಳಿತ ಕಲೀರಿ ಮತ್ತು ಕಾರ್ಖಾನೆ : ಇಮಾಮಜೂರ ಗ್ರಾಮ, (ಜನವಾಡ ಹತ್ತಿರ), ಬೀದರ–585 402. (ಕರ್ನಾಟಕ ರಾಜ್ಯ) ೦MINISTRA IVE OFFICE & FACTORY : IMAMPUR VILLAGE, (NEAR JANWADA), Tq. & Dist. Bidar - 585 402. (Karnataka State)



Office : 98482-244135 Tele Fax (O) : 98482-244136 E-mail:naranjassk@gmail.com naranjasugar@gmail.com

್ ೧೯೮೦ ಜಾ ನಹಕಾಲ ಸಕ್ತರೆ ಕಾರ್ಖಾನೆ ನಿಯಮಿತ ಜೀದರ THE NARANJA SAHAKARI SAKKARE KARKHANE LTD; BIDAR

Ref: NSSKB/ADM/2021-22

Date: 07.12.2021

CERTIFICATE

This is to certify that Mr. Johnson B.E. VII SEM (USN:3GN18EE014), student of Guru Nanak Dev Engineering College Bidar, has successfully completed his Internship under guidance of Chief Engineer in our organization with in the permitted period of 04 weeks i.e. from 25.09.2021 to 24.10.2021 as a part of curriculum.

He was regular, punctual and attentive during the Training period at our organization.

For Naranja SSK Ltd,

B.S. Aparanji

Managing Director

Minnagin Director

Maranja S.S.W. Va Imampur-Bidar



N S I C

E NATIONAL SMALL INDUSTRIES CORPORATIONAL SMALL INDUSTRIES CORPORATIONAL SERVICES CENTRE.

(भारत सरकार का उद्याप / A Government of India Enterprises) ई.सी.आई एल एम्सा रोड, कुशाईगुडा, हैटरानाद — 500062, रोलंगाचा, भारत E.C.I.L X Road, Kushaiguda, Hyderabad - 500062, Telangana, India.

фніф / S.No 181724

Certificate

दिनाक / Date:

)	ower	alysis Using Mi Po	ver System Ana	entitled/in the area of Power System Analysis Using Mi Power	titled/ir
	rnship Program	Internship	ed the	has successfully completed the Inter	has succ	Roll No. 3GN18EE015	No.
4		The state of the s	ar	ering College,Bid	nak Dev Engine	(College Name) Guru Nanak Dev Engineering College, Bidar	ollege
from	m	in	BE	pursuing	Yakatpur	son/daughter of Mr. Maruti Yakatpur	gnep/u
					Ms Kavya	This is to certify that Mr. / Ms. Kavya	is is to

He/She has completed the assigned module as per the requirements within the time frame our guidance. It is a bonafide work carried out by her/him from. During the above period, the trainee's conduct was found Good 14/09/2021 ਰ 13/10/2021



Project Coordinator

Secretary Control of the Control of



Centre Head

पर प्रमाण पत्र होत्तेग्राम लगा हाने के छात्र ही मान्य होगा? This Certificate shall be valid only with affixed hologram

SUPPLY COMPANY LIMINA SIBARGA ELECTRICIT



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Mr. KRATIK.G. (Reg No. USN 3GN18EE017) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, " HT Butter, Kneep Locking, Meter Towning and also Vigilance Activisies, Accounts (interior and source 120 decision of Division & Circle). Distribution transformer require / Charles and the moit to 2200 1970 33/11kV Sub-stations & Solar power plant " etc.,

His/Her conduct and behavior during the above said period was good

Superintending Engineer (Ele),

O&M Circle, GESCOM Superintending Engineer (Ele.)

O&M. Circle GESCON PIDAR.

Place : Bidar.

GURU NANAK DEV ENGINEERING COLLEGE

BIDAR-585 403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the project entitled "ELECTROMAGNETIC AUTOMATIC BRAKING SYSTEM" is a bonafide work carried out by JOHNSON (3GN18EE014), MAHADEV (3GN18EE020), PRAVEENKUMAR (3GN18EE029) & SHAIK ADNAN (3GN18EE033) in partial Engineering degree. Fulfillment for the award of degree of Bachelor of Engineering in Electrical & Electronics Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the project report satisfies the academic requirements in respect of project work described for the Bachelor of Engineering Degree.

Dr. Neelshelty K

Signature of Guide

Dr. Neelsherd K

Signature of HOD

Dr. Dhananjay D Muktedar

Signature of Apparipal

Department of Electrical .

& Electronics Engineering

Guru Nanak Dev Engg. College BIDAR

Name of the Examiner G.N.D. Engg College, BIDAR Signature with Date

Dr. Healsgetly 1

2) Megha

Shows.

Guru Nanak Dev Engg. College, Bidar

25/7/20

ABSTRACT

Braking is basically a mechanical action applied for slowing down of vehicles or even making the vehicle coming to halt depending upon the circumstances. Automotive vehicles are increasingly being equipped with collision avoidance and warning systems for predicting the potential collision with an external object, such as another vehicle or a pedestrian. Upon detecting a potential collision, such systems typically initiate an action to avoid the collision and/or provide a warning to the vehicle operator. The aim of this project is to design and develop a control system based on an automatic, intelligent and electronically controlled automotive braking system for automobiles is called as "INTELLIGET BRAKING SYSTEM".

When a safety factor of a vehicle is considered a primary factor that flashes in mind is its brakes or braking system. So, a braking system is such a vital component that is necessarily required when a vehicle is considered. It reduces the kinetic energy of the vehicle in conditions when a vehicle has to slow down or also it has to be stopped. Thus, making sure the vehicle and the passengers inside it are safe. Thus, a braking system is always needed to ensure the safety of the drivers and passengers uncountable valued lives.

An Electromagnetic Braking system uses Magnetic force to engage the brake. The disc is connected to a shaft of the wheel driven by the motor and the solenoid coil (electromagnet) is mounted beside the disc. When electricity is applied to the coil, a magnetic field is developed across the armature because of the current flowing across the coil and causes armature to get attracted towards the coil. As a result, it develops a torque and eventually the disc to which the wheel is connected comes to rest. Thus, breaking or stopping the vehicle. In this project the advantage of using the electromagnetic braking system in automobile is studied. These brakes can be incorporated in heavy vehicles as an auxiliary brake. The electromagnetic brakes can be used in commercial vehicles by controlling the current supplied to produce the magnetic flux. Making some improvements in the brakes it can be used in automobiles in future.

PRINCIPAL PRINCIPAL BIDAR



NSL Sugars Ltd, Unit-II

(Lessee of SSKN Aland)

Factory: Bhusnoor

Aland Taluk - Kalaburagi District

Kamataka - 585 302 Fax: 08440-210200

E-mail: alland.ns/sl@ns/sugars.com

www.nslsugars.com

CIN No. U15429KA1999PLC026121

NSL/ALAND/HRD/2021

Date: 08.10.2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr.Mahesh.K Bevinakatti (3GN18EE021) studying VII semester B E.(Electrical and Electronics Engineering) in Guru Nanak Dev Engineering college Bidar, Has successfully completed his internship Work on "Process of Sugar Manufacturing" from 05.09.2021 to 05.10.2021. During this period he has taken good initiative and interest in completing the internship Work.

During the above training period his performance was found satisfactory

W wish him all the best in his future endeavors.

For NSL Sugars Ltd., Unit-II

At drized Signatory



PRINCIPAL ON ANDER BIGAT

An NSI GROUP Company

GURU NANAK DEV ENGINEERING COLLEGE BIDAR, KARNATAKA 2021-2022 GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING **CERTIFICATE**

This is to certify that the project entitled "AUTONOMOUS INDUSTRIAL ROBOT WITH SAFETY MANAGEMENT" is a bonafide work carried out by VAIBHAV VANGAPALLI (3GN18EE048), PURUSHOTTAM (3GN18EE031), MD.SHOEB (3GN18EE024) & SYED AHMEDULLAH HUSSAINI (3GN18EE045) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the project report satisfies the academic requirement in report of the project work described for the Bachelor of Engineering Degree.

Mrs. SULAKSHANA W (Asst. Prof.) Dr. NEELSHETTY K

Signature of Guide

Name of the Examiner

Neel 81

Signature of HOD & Electronics Engineering G.N.D. Engg College, BIDAR

Dr. DHANANJAY D M

Sign RALNEPPAdiple Guru Nanak Day Engg. College BIDARQ

Signature with Date

Guru Nanak D

ridar

ABSTRACT

Robot is a machine that is usually designed to reduce the amount of human work where it is applicable. It is usually developed for reducing risk factor for human work and increase comfort of any Industry or worker. High performance, high accuracy, lower labor cost and the ability to work in hazardous places have put robotics in an advantageous position over many other such technologies. In this project a line tracer robot or follower has been presented which will trace a black line on a white surface or vice-versa. We have make use of sensors to achieve this objective. The main component behind this robot is ATmega328P microcontroller which is a brain of this robot. The idea proposed in this project is by using machine vision to guidethe robot.

The presence of hazardous LPG gas leakage in a domestic, work place, also, stored gases container gas which exhibits ideal characteristic is use. For that sake, an alarm unit is used to vibrate an alarm which is buzzer. Buzzer gives an audible sign of the presence of LPG volume. The sensors are widely used to detect essence of propane, iso-butane, LPG and even smoke. The sensor has an advantage to combine a sensitivity response time. If the LPG sensor senses gas leak from work place or home, sensor output goes to active low (logic-0) condition. Arduino UNO is used in the project; low signals are overlooked by the Arduino and gas leakage is been noticed by the Arduino. The Arduino UNO turns on the LCD and buzzer. It even turns on the GSM modem after that, it continues to send messages SMS to mobile number specifically mentioned in the program of the source code for alerting danger to the people.

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar

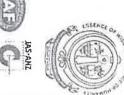




PRINCIPAL College, Bidar

TECHNICAL INTERNSHIP TRAINING CERTIFICATE

Site for Residential & Commercial Projects from 07th September 2021 to 07th October 2021 in Collaboration B.E. Department of Electrical & Electronics Engineering, GURU NANAK DEV Engineering College Bidar has successfully completed Technical Internship Training conducted on Electrical Engineering & with KG MECH Electro-Mechanical Pvt. Ltd., Hyderabad as a Partial Fulfillment of Curriculum Requirement Electronics including Electrical Lighting Design, AutoCAD Software, DIALux Software, Drawing Preparation & This is to certify that Mr./Ms. Mohd Azhar bearing USN-3GN18EE025 student of







Managing Director KG MECH Pvi. Ltd.



MECHANICAL | ELECTRICAL | CIVIL | COMPUTERS | HEALTH & SAFETY ECH. | Santosh Nagar | Masabtank | Dubai, Ph. +917097673344, +919700910004

मानव संसधन विभाग हेलिकॉप्टर प्रभाग (हैका) हिन्दस्तान एरोनाटिक्स लिमिटेड पोस्ट देंग संख्या 1790, बेंगलूर - 560017, भारत



HR DERARTMENT HELICOPTER DIVISION (HC) HINDUSTAN AERONAUTICS LIMITED

Post Bag No.1790, Bangalore-560 017, India Ph. (दुरभाष): 91-80-2231 7891, 2232 2918

Fax (फेक्स) : 91-80-22314717

Ref: H/A/HR/SM (PR)/76/ 2021

October 19, 2021

CERTIFICATE

certify that This Ms. Nikita (USN. to No.3GN18EE026) student of BE - Electrical & Electronics Engineering, Guru Nanak Dev Engineering College, Bidar, Karnataka, has undergone "Internship" in ALH Final Assembly, HAL-Helicopter Division from 20.09.2021 to 19.10.2021

Her Punctuality, Conduct, Behaviour and Progress during 2. the period of "Internship" was Satisfactory.

For HAL-Helicopter Division

(G. H. Raju) \

Senior Manager (Public Relations)

धै ಎर्थे ठिक्क/जी एच राज् ಹಿದ್ಯ(ಜನ ಸಂಪರ್ಕ) / व प्र (जन संपर्क)

SM(Public Relations)

ಎಚ್ ಎಎಲ್/एवएलएल/HAL,

ವೆಂಗಳೂರು/वेगल्ह/Bangalore-560 017

पंजीकृत कार्यलय : 15/1, कब्बन रोड, बेंगलूर - 560001, भारत Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India CIN: U35301KA1963GO1001622 E(\$): hr.hcop@hal-india.com

STEARGA ELECTRICITY SUPPLY COMPANY LIMITED



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Kum. P. SHARADHA (Reg No. USN 3GN18EE028) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2071 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle). Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele Gurii Nanak Dev Engg. Collecte. O&M Circle, GESCOM

Place : Bidar.





CERTIFICATE

OFCOMPLETION



This is to certify that **Praveen Kumar**

has successfully completed.

INTERNSHIP Program of 30 days

on _____IOT

technology offered by

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation



15th DEC 2021 Issued on:



Program Head PEN Engg. Colleg

मानव संसधन विभाग हेलिकॉप्टर प्रभाग (हैका) दिन्द्रस्तान एरोनाटिक्स लिमिटेड पारः येग सङ्घा 1790. पेंगलूर - 560017. भारत



HELICOPTER DIVISION (HC) HINDUSTAN AERONAUTICS LIMITED Post Bag No.1790, Bangalore-560 017, India Ph. (ब्रुप्सच्य): 91-80-2231 7891, 2232 2918

Fax (फेक्स): 91-80-22314717

Ref: H/A/HR/SM (PR)/76/2021

October 19, 2021

CERTIFICATE

This is certify that Ms. Priva (USN. No.3GN18EE030) student of BE - Electrical & Electronics Engineering, Guru Nanak Dev Engineering College, Bidar, Karnataka, has undergone "Internship" in ALH Final Assembly, HAL-Helicopter Division from 20.09.2021 to 19.10.2021

Her Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

For HAL-Helicopter Division

(G. H. Raju)

Senior Manager (Public Relations)

र्थे अर्थ पराक्ष जी एवं पान

ಓದ್ಯ(ಜನ ಸಂಪರ್ಕ್ / ನಿ ೨ (ತಸ ಪ್ರಾಕ್ G H RA IV SM(Fubir: Perations) ಪರಿಕೃತ (೨೯)/ ಕಾರ್ಟ್ ಸ್ Helwsky)

DOF DOCH PROTECT & HAL.

เรือกระดบ/ค้าสุดเผลเลเลเตย

Ouru Narak Dev Engg. College, Bidar.

पंजीकृत फार्यलय : 15/1, कह्मन गह, यंगल्य - 560001 भारत Registored Office: 15/1, Cubbon Road, Bangalore-560 001, India CIN: 938301XA1863CC 10162 Fire in heap@hallindia.com





CERTIFICATE

OFCOMPLETION



This is to certify that **Purushottam**

has successfully completed

____INTERNSHIP Program of ___30 __days

technology offered by .

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation



15th DEC 2021



Program Head





CERTIFICATE

OF COMPLETION.



This is to certify that Ranjita BR

	has successfully completed					
	INTERNSHIP Program of 30 days					
on	IOT					

technology offered by '

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation



15th DEC 2021 Issued on:



Progrant Mead

Gurungant Mead





TECHNICAL INTERNSHIP TRAINING CERTIFICATE

Site for Residential & Commercial Projects from 07th September 2021 to 07th October 2021 in Collaboration Bidar has successfully completed Technical Internship Training conducted on Electrical Engineering & B.E. Department of Electrical & Electronics Engineering, GURU NANAK DEV Engineering, College This is to certify that Mr./Ms. Shaik Adnan bearing USN-3GN18EE033 student of Electronics including Electrical Lighting Design, AutoCAD Software, DIALux Software, Drawing Preparation & with KG MECH Electro-Mechanical Pvt. Ltd., Hyderabad as a Partial Fulfillment of Curriculum Requirement





Managing Director





मानव संसधन विभाग हेलिकॉप्टर प्रभाग (हैका) हिन्दुस्तान एरानाटिक्स लिमिटेड पोस्ट देन सच्चा 1790, रॅपल्स - 560017, भारत



HR DEPARTMENT HELICOPTER DIVISION (HC) HINDUSTAN AERONAUTICS LIMITED Post Bag No.1790, Bangalore-560 017, India Ph. (दुरुपय): 91-80-2231 7891, 2232 2918

Fax (फेक्स) : 91-80-22314717

Ref: H/A/HR/SM (PR)/76/ 2021

October 19, 2021

CERTIFICATE

certify that Ms. Shailaja (USN. This No.3GN18EE034) student of BE - Electrical L'Electronics Engineering, Guru Nanak Dev Engineering College, Bidar, Karnataka, has undergone "Internship" in ALH Final Assembly, HAL-Helicopter Division from 20.09.2021 to 19.10.2021

Her Punctuality, Conduct, Behaviour and Progress during 2. the period of "Internship" was Satisfactory.

For HAL-Helicopter Division

Senior Manager (Public Relations)

2 auf on 20/जी एच पाजु

ಹಿವ್ಯ (ಆನ ಸಂಪರ್ಕ) / व प्र (जन संपर्क) G H RAJU SM(Public Relations) वर्धकर्त्वन विकास स्थान/Hellcopter Division

अध* ಎಎಲ್/ एचएलएल/HAL, र्टिंगर्जर्ज/बेगल्ह/Bangalore-560 017

PRINCIPAL College

पंजीकृत कार्यलय : 15/1, कब्बन रोड, बेंगलुर - 560001, भारत Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India CIN: U35301KA1963GOI001622 E(i): hr.hcop@hal-india.com





CERTIFICATE

OFCOMPLETION



This is to certify that shambhayi

has successfully completed

	INTERNSHIP	Program	of	30	days
on	The same with high west was clear who are same and same same and the party	IOT			

technology offered by

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation

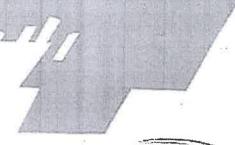


15th DEC 2021



Program Head







TAKE IT SMART (OPC) PVT. LTD

Ref No: 2021/07/28

Date:1/10/2021

To Whom It May Concern

This is to Certify that Miss/Mr. SHARAN Bearing USN 3GN18EE037 is a Bonafide Student of GURUNANAK DEV ENGINERING COLLEGE BIDAR STUDYING ELECTRICAL AND ELECTRONICS ENGEENEARING has Undertaken Internship in "FULL STACK WEB DEVELOPMENT" with us from 30th AUGUST 2021 to 30th SEPTEMBER 2021.

During the period of her/ his Internship program with us, she/ he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We take this opportunity to thank him/her and wish him/her all the best for his/her future.

For, Take it smart (OPC) Pvt.Ltd

122

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Mr. MALLIKARIUN RUMBAR DIRECTOR

* 1274 2nd Floor, Samtary Core, and phase, Velahanka New Yown Bengalam, Kamataka - Seji duk

PARKED LOWER

SUBARGA ELECTRICITY SUPPLY COMPANY LIMITA

No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12 14-3021

CERTIFICATE

This is to certify that Mr. SHIVKUMAR (Reg No. USN 3GN18EE040) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from

121 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audic EST Section of Division & Circle), Distribution transformer repairs State Took OC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele). O&M Circle, GESCOM, Bidar. Superintending Engineer (Ele.) **O&M Circle GESCOM BIDAR**

Place : Bidar.

STEARGA ELECTRICITY SUPPLY COMPANY LIMITA



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date:12-10-2021

CERTIFICATE

This is to certify that Kum. SHWETA. H (Reg No. USN 3GN18EE041) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 63-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store, TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Guru Nanak Dew Engg. College, Bidar Superintending Engineer (Ele), O&M Circle/GESCOM, Bidar.

Superintending Engineer (Ele r **08M Circle GESCOM BIDAR**

Place: Bidar.

The Mahatma Gandhi Sahakara Dakkare Karkhane (19)

BHALKI - 585 328 Bitter Elect (Set - 104 p. 104e e. Regn. No. DSK | LGL 1RGN | 12 | 91 92 Obted | 18-04-1991

MGSSK(N)/EST/2022-23/ 16.3

19-05-2022

-:: CERTIFICATE ::-

This is to certify that Mr.Siddharth S/o Sunil USN(3GN18EE042), BE-VIIth Semester a student of Guru Nanak Dev Engineering College Bidar-585403, has successfully completed his Internship on "MANUFACTURING PROCESS OF WHITE CRYSTAL SUGAR" in MGSSK Ltd., Bhalki, from 09-09-2021 to 09-10-2021 during the period he has taken good initiative and interest in completing the study.

He has obtained necessary information and completed his industrial training. We wish all the best for his future end over.

MANAGING DIRECTOR

To,
Mr.Siddharth S/o Sunil,
USN(3GN18EE042),
BE-VIIth Semester Student.

Guru Nanak Dev Engineering College Bidar.

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar

Copy to:-

1) EST.

SUBARGA ELECTRICIT SUPPLY COMPANY LIMITS



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date:12-10-2021

CERTIFICATE

This is to certify that Kum. SUMAN. H (Reg No. USN 3GN18EE043) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintend

Superintending Engineer (Ele.) O&M Cifcle GESCOM BIDAR

Place: Bidar.

मानव संसघन विभाग हेलिकॉप्टर प्रभाग (हैका) हिन्दस्तान एरोनाटिक्स लिमिटेड पोस्ट बैग संख्या 1790, बेंगलूर - 560017, भारत



HELICOPTER DIVISION (HC) HINDUSTAN AERONAUTICS LIMITED Post Bag No.1790, Bangalore-560 017, India Ph. (दूरभाष) : 91-80-2231 7891, 2232 2918 Fax (中研): 91-80-22314717

Ref: H/A/HR/SM (PR)/76/ 2021

October 19, 2021

CERTIFICATE

certify that Ms. Swati No.3GN18EE044) student of BE - Electrical & Electronics Engineering, Guru Nanak Dev Engineering College, Bidar, Karnataka, has undergone "Internship" in ALH Final Assembly, HAL-Helicopter Division from 20.09.2021 to 19.10.2021

Her Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

For HAL-Helicopter Division

(G. H. Raju) 19/10

Senior Manager (Public Relations,

र्थ अथा पाळा/जी एव रोज

ಹಿವ್ಯ (ಜನ ಸಂಪರ್ಕ) / व प्र (जन संपर्क) G H RAJU SM (Public Relations) ಪೆಲಿಕಾಸ್ಟರ್ ವಿಧಾಗ/तिकारत प्रभाग/Helicopter Division ಎಚ್ಎಎಲ್/ एवएलएल/HAL.

ដំon ਵਿਚਲਾ बेंगलू रू/ Bangalore-560 017

पंजीकृत कार्यलय : 15/1, कब्बन रोड, बेगलूर - 560001, धारत Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India CIN: U35301KA1963GO1001622 E(#): hr.hcop@hal-india.com

Guru Nanak Dev Engg, College, Bidar



PRINSTON SMART ENGINE

Full Stack Web Development Certificate of Internsh

Syed Ahmed Ulla Hussaini

Guru Nanak Dev Engineering College, Bidar

3GN18EE045

August 15th to September 15th, 2021. Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.



PSEFSWD2373



www.prinstonsmart.com



PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Empowering and Inspire Course4job.com





TECHNICAL INTERNSHIP TRAINING CERTIFICATE

Site for Residential & Commercial Projects from 07th September 2021 to 07th October 2021 in Collaboration B.E. Department of Electrical & Electronics Engineering, GURU NANAK DEV Engineering College Bidar has successfully completed Technical Internship Training conducted on Electrical Engineering & Electronics including Electrical Lighting Design, AutoCAD Software, DIALux Software, Drawing Preparation & This is to certify that Mr./Ms. Syed Zeeshan bearing USN-3GN18EE046 student of with KG MECH Electro-Mechanical Pvt. Ltd., Hyderabad as a Partial Fulfillment of Curriculum Requirement





Managing Director
KG MECH Pvt Ltd.



MECHANICAL | ELECTRICAL | CIVIL | COMPUTERS | HEALTH & SAFETY ECIL | Santush Nagar | Masabiank | Dubal, Ph. +917097672344, +919700910004

Bhour:

PRINCIPALGuru Nanak Dev Engg. College, Rid-

Y SUPPLY COMPANY LIMITA WIBARGA ELECTRICIT



CERTIFICATE

This is to certify that Mr. VAIBHAV (Reg No. USN 3GN18EE048) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like,

" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar.

Place : Bidar.

Date: 12-10-2021

Enga. College, Bidar

SULBARGA ELECTRICITY SUPPLY COMPANY LIMITE

No: BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Mr. VARUNKUMAR (Reg No. USN 3GN18EE050) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out intenship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store, TA & ()C, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle GESCOM, Bidar. - perintending Engineer (Ele.) DSM Eircle GESCOM BIDAR

Place : Bidar.

Date: 12-10-2021

Guru Nanak Dev Engg. College, Bid-

Scanned by CamScanner



Bidar Kissan Shakhar Karkhana Limited

Factory Site: Village Mogdal, National Highway No. 9, Taluk & Dist: Bidar, Kamataka Regd. Off: Village Mogdal, Post Markunda, Taluk & Dist: Bidar, Pin-585 227, Kamataka

Cell: 9620220113/ 9620220116, Email: bidarksklmogdal@gmail.com

GSTIN No.: 29AAECB0672N1ZC

CIN: U15429KA2000PLC026372

Ref No.

Date:

BKSKL/Adm/Elec/ 2021-22

04/10/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. VEERSHETTY student of Guru Nanak Dev Engineering College, Bider, who is pursuing his B.E. (Electrical & Electronics) USN No:3GN18EE051, has successfully completed his internship at M/s "BIDAR KISSAN SHAKHAR KARKHANA Ltd., Mogdal from 03/09/2021 to 01/10/2021. During the period he was found to be sincere and hard working.

We wish him all the best for his future endeavors.

Thanking you

Yours faithfully

GM (Admin) BKSK Ltd. Mogdal

Shakilar to Village MOGDAL Tq. & Dist. Bidar



ष्ट्र एस आई भी N S I C

क्रमांक / S No 181722

NAL SMALL INDUSTRIES CORPORATION LTI निगम-तकरीकी सेवा केन्द्र

TECHNICAL SERVICES CENTRE
[THREE ALTERNATION OF India Enterprises]

Guru Nanak Dev Engg. College, Bidar

ई.सी.बाई.एल एक्स रोड, ऋशाईगुडा, हैदराबाद — 500062, रोलंगाना, भारत E.C.J.L X Road, Kushaiguda, Hyderabad - 500062, Telangana, India.

दिनांक / Date: 13/10/2021

Certificate

		Good	During the above period, the trainee's conduct was found———G	During the above peri
ame.	the time fr	ents within	He/She has completed the assigned module as per the requirements within the time frame.	He/She has complete
13/10/2021	lo13/	14/09/2021	our guidance. It is a bonafide work carried out by her/him from 14/09/2021	our guidance. It is a b
	* 9	,	entitled/in the area of Power System Analysis Using Mi Power	enlitled/in the area of
	Program	Internship I	has successfully completed the Internship Program	Roll No. 3GN18EE052
e:	Apprehiss in	of the second se	(College Name) Guru Nanak Dev Engineering College, Bidar	(College Name) Guru
from	m m m	E .	erashetty pursuing BE	son/daughter of Mr. Veerashetty
100			Ir. / Ms Vijaylaxmi	This is to certify that Mr. / Ms Vijaylaxmi

ਪਰ ਸਾਮੂਸ ਸਭ ਹੋਮੀਸ਼ਸ ਕਥਾ ਨਾਜ ਤੋਂ ਗਾਮ ਹੈ ਸਾਜ ਲੇਸ਼ / This Certificate shall be valid only with affixed hologram

Centre Head

Project Coordinator



#485, 1" Stage, 6" Phase, 10" cross, Mahaganapathinagar, Thimmalah Road, Rajajinagar, Bangalore - 560010 ph: 9242838716

email: jagannath@mesoln.com

Date: 30-09-2021. Place: Bangalore.

To Whomsoever It May Concern

This is to certify that Mr/Ms. ANKUSH student of Electrical Engineering at GURU NANAK DEV ENGINEERING COLLEGE OF BIDAR bearing USN No: 3GN19EE400 has successfully completed internship on (Embedded and IOT) in our company from 30/08/2021 to 30/09/2021.

We wish him/her all success in his/her future endeavor

For Micro Embedded Solutions.

(JAGANNATH.A) Au B. 250/02 100 TICHS
Proprietor #480/H, Inti Suggo, on Phace,
Mehappenepoliture, on,
Rejainneer, Bangelore - 65' 010.

JULBARGA ELECTRICIT PPLY COMPANY LIMITA



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Place: Bidar.

Date: 12-10-2021

Date:12-10-2021

CERTIFICATE

This is to certify that Kum. GANGA (Reg No. USN 3GN19EE401) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle), Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending Engineer (Ele.)

O&M Circle GESCOM BIDAR

WLBARGA ELECTRICITY SUPPLY COMPANY LIMITA



Date:12-10-2021

CERTIFICATE

This is to certify that Mr. GURUNATH (Reg No. USN 3GN19EE402) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities. Accounts (Internal Audit. I'ST Section of Division & Circle). Distribution transformer repairs. Store A & QC, visit to 220/110/11, 33/11k\ Soh-stations & Solar power plant " etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M'Circle, GESCOM, Bidar. Superintending Engineer (Ele.) O&M Circle GESCOM BIDAR

Place: Bidar.

Date: 12-10-2021





CERTIFICATE

OFCOMPLETION



This is to certify that Manjunath

has successfully completed

INTERNSHIP Program of 30 days
on 10T
technology offered by

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation



15th DEC 2021 Issued on:



Frogram Head



GEMINI GRAAPHICS PVT. LTD.

SPECIALITY PAPER DIVISION

(ISO 9001:2008 and 27001:2013) (CIN: U72900KA1983PTC005487)
SURVEY NO. 64/1, 106/107, VILLAGE KAMTHANA, TQ. & DIST. BIDAR - 585 226.
Phone # 91 - 8482 - 200010 / 200011 Fax # 91 - 8482 - 232029 / 232238.
E-mail: paperunit@geminigraphics.co.in Website: www.geminigraphicsindia.com

REF:GGPL:BDR:PD:2021-2022/032

October 07,2021

To Whomsoever It May Concern

This is to certify that Mr. Nagesh, USN (3GN19EE404), B.E student of Electrical and Electronics Engineering Branch. Department of Guru Nanak Dev Engineering College, Bidar affiliated to Visvesvaraya Technological University, Belagavi, has completed his internship in our organization, under the guidance of Mr. Kashinath Bhande, Deputy General Manager Gemini Graaphics Private Limited Kamthana Bidar (Paper Division), from 08.09.2021 to 07.10.2021.

During this internship period his conduct and performance was found satisfactory.

We wish his all the best in his future endeavour.

For Gemini Graaphics Private Limited,

(Shripad Kulkarni) General Manager.

Place : Bidar

Date: 07.10.2021

Spacially Paper Division of Statement A

PRINCIPAL
Guru Nanak Dev Engg. College, Side,

SULBARGA ELECTRICITY SUPPLY COMPANY CAMPANY

No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Kum. RENUKA (Reg No. USN 3GN19EE405) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 in 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, "HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle). Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/11kV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, ØESCOM, Bidar. Superintending Engineer (Ele.)

O&M Orcle GESCOM BIDAR

Place: Bidar.

Date: 12-10-2021

SILBARGA ELECTRICITY SUPPLY COMPANY LIMITA



CERTIFICATE

This is to certify that Kum. SABA SAMREEN (Reg No. USN 3GN19EE406) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from 03-09-2021 to 12-10-2021 as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like,

" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle/GÉSCOM, Bidar.

Place : Bidar.

Date: 12-10-2021

STEARGA ELECTRICITY SUPPLY COMPANY LIMITA



No:BDR/SEE/EE(O)/AFFE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Mr. SHIVALING SWAMY (Reg No. USN 3GN19EE407) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from

as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, " 113 Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts Internal Audit. FST Section of Division & Circles. Distribution transformer repairs Store AA& OC, visit to 220/110/11, 33/1116 Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superiplending Engineer (Ele.) O&M Circle GESCOM BIDAR

Place: Bidar.

Date: 12-10-2021



Electrical Design Certificate of nternship

Guru Nanak Dev

SHRUTI GADBALLI

GURU NANAK DEV ENGINEERING COLLEGE BIDAR

3GN19EE408

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

Sept 1st to Sept 30th, 2021.

www.prinstonsmart.com

PSEED2086

NCIPAL Engg. College, Bidar

Empowering and Inspiring Course4job.com future professionals



SUBARGA ELECTRICITY SUPPLY COMPANY LIMITE



No:BDR/SEE/EE(O)/AEEE(O)/2021-22

Date: 12-10-2021

CERTIFICATE

This is to certify that Mr. SRINATH (Reg No. USN 3GN19EE409) student of Electrical and Electronics Engineering branch of Guru Nanak Dev Engineering college, Bidar has carried out internship in this Circle from as requested by the Principal GNDEC, Bidar and across the practices followed in various Sub-divisions of GESCOM, Bidar like, " HT Rating, Relay Testing, Meter Testing and also Vigilance Activities, Accounts (Internal Audit, EST Section of Division & Circle). Distribution transformer repairs / Store ,TA & QC, visit to 220/110/11, 33/HIKV Sub-stations & Solar power plant" etc.,

His/Her conduct and behavior during the above said period was good.

Superintending Engineer (Ele), O&M Circle, GESCOM, Bidar. Superintending Engineer (Elg.)

O&M Circle GESCOM BIDAR

Place : Bidar.

Date: 12-10-2021

The Mahatma Gandhi Sahakara Sakkare Karkhane (1997)

BHALKT- 585-328 Bidar Dist Kampuland State Regn. No. DSK | LGL (RGN) | 2791-92 Duted | 08-04-1991

MGSSK(N)/EST/2022-23/ Te j

19-05-2022

REINE

Date

-:: CERTIFICATE ::-

This is to certify that Mr. Vijaykumar USN(3GN19EE410), BE-VIIth Semester a student of Guru Nanak Dev Engineering College Bidar-585403. has successfully completed his Internship on "MANUFACTURING PROCESS OF WHITE CRYSTAL SUGAR" in MGSSK Ltd., Bhalki. from 02-09-2021 to 02-10-2021 during the period he has taken good initiative and interest in completing the study.

He has obtained necessary information and completed his industrial training.

We wish all the best for his future end over.

a' MANAGING DIRECTOR

To.

Mr. Vijaykumar, USN(3GN19EE410), BE-VIIth Semester Student. Guru Nanak Dev Engineering College Bidar.

PRINCIPAL

Guru Nanak Dev Engg. College, Bigar

Copy to:-

1) EST.





PRINSTON SMART MNGINM П

Electrical Design Certificate of Internship

MOHAMMED IMRAN

GURU NANAK DEV ENGINEERING COLLEGE BIDAR

3GN16EE020

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

August 15th to Sept 30th, 2021.



PSEED2046



www.prinstonsmart.com

Guru Nanak Dev Engg. College, Bider

Empowering and Inspiring future professionals





Certificate of Internship Electrical Design

Empowering and Inspiring

Gentu Nanak Dev Engg.

PRINCIPAL

future professionals

Course4job.com

SHAIK PARWAZ AHMED

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN16EE035

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 15th to Sept 30th, 2021.



PSEED2053



www.prinstonsmart.com



PRINCIPAL Gurn Nanak Dev Engg. College, Bid-



Certificate of Internship Electrical Design

Empowering and Inspiring

future professionals

Manak Dev Engg. College, Bio

Course4job.com

AVINASH G BADIGER

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN17EE008

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

August 15th to Sept 30th, 2021.





www.prinstonsmart.com





PRINCIPAL Guru Nanak Dev Engg. College, Bid?

Certificate of Internship Electrical Design

Empowering and Inspiring

future professionals

Guru Nanak Dev Engg. College, PRINCIPAL

Course4job.com

KRISHNA SAIGAL

GURU NANAK DEV ENGINEERING COLLEGE BIDAR

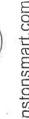
3GN17EE015

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.

Sept 1st to Sept 30th, 2021.



CERTIFIE





Guru Nanak Dev Engg. College, Rid-PRINCIPAL





www.prinstonsmart.com

PSEED2084





Certificate of Internshi Electrical Design

Empowering and Inspiring

future professionals

Guru Nanak Dev Engg. College,

Course4job.com

SANTOSH REDDY

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN17EE038

Intern Has Successfully Completed The Internship.

Intern Was Found To Be Good And Disciplined.

August 15th to Sept 30th, 2021.





www.prinstonsmart.com



PRINCIPAL

Guru Nanak Dev Engg. O llege, Pir'



Certificate of Internship

Empowering and Inspiring

future professionals

PRINCIPALSAINCIPAL

SAINCIPAL

Course4job.com

SUHASINI MELDODDI

Electrical Design

GURUNANAK DEV ENGINEERING COLLEGE, BIDAR

3GN17EE042

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. August 15th to Sept 30th, 2021.



CHRISIAL

www.prinstonsmart.com

PSEED2037



Guru Nanak Dev Engg. College (2014)

PRINCIPAL

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the project entitled "MONITORING AND ALERTING OF PATIENT HEALTH REMOTELY" is a Bonafede work carried out by ABDI LHAMEED NADAF (3GN18EE400), SANTOSH REDDY (3GN17EE038), MOHAMMED IMRAN (3GN16EE020), SHAIK PARWAZ AHMED (3GN16EE035) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering Affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the project report satisfies the academic requirement in report of the project work described for the Bachelor of Engineering Degree

Signature of Guide Mrs. SHUBHA.S

Signature of HOD

Dr. NEELSHETTY K

Signature of Principal

Dr. DHANANJYA D MUKTEDAR

Name of the Examiner

1)...Negha....

2) Dr. Neelshetty · K

Signature with Date

reme 1 1200

202

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

ABSTRACT

This project is significant in various ways because in today's world, everyday many lives are affected because the patients are not timely and properly operated. Also, for real time parameter values are not efficiently measured in clinic as well as in hospitals. Sometimes it becomes difficult for hospitals to frequently check patient's conditions. Also continuous monitoring of ICU patients is very difficult. To deal with these types of situations, our system is beneficial. Our system is designed to be used in hospitals and homes also for measuring and monitoring various parameters like temperature, ECG and heart rate. The results can be recorded using Arduino and uploaded to cloud using thinker cad Platform. The system will also generate an alert notification in Doctors Twitter account. Our system is useful for monitoring health system of every person through easily attach the device and record it. In which we can analyze patient's condition through their past data, we will recommend medicines if any emergency conditions.

In this project the patient health parameters like Temperature, ECG and heart rate can be collected by using the different sensors, and the data could be communicated to Cloud through Arduino, the uploaded data can be sent as an alert to Doctors twitter account, so that doctor can monitor the health condition and suggest medicine in emergency condition as a first aid, which leads to saving the patient's life.

PR.

Ridar

GURU NANAK DEV ENGINEERING COLLEGE BIDAR-585403, KARNATAKA

ACADEMIC YEAR 2021-2022



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the project entitled "PIEZOELECTRIC ROAD" is a bonafide work carried out by MAHESHA (3GNI/EE017), BHANDARI APPARAO (3GN18EE405) in partial fulfillment for the award of Degree of Bachelor of Engineering in Electrical & Electronics Engineering Affiliated Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that the project report satisfies the academic requirement in report of the project work described for the Bachelor of

Engineering Degree

Signature of Guide

Signature of HOD

Mrs. MEGHA

Dr. NEELSHETTY K
Department of Electrical
& Electronics Engineering

Name of the Examiner G.N.D. Engg College, BIDAR

2 mis

Signature of Principal

Dr. DHANANJYA D MUKTEDAR

Guru Nanak Dev Engr. Callege Signatur OARn Date

1) Prof. Megha

2) Dr. Nedshelly K.

Cince

PRINCIPAL

Guru Nanak Dev Engg. Co.

ne Bidar

ABSTRACT

This study has been undertaken to investigate the self-sustainable and Eco-friendly model that has been suggested to implement the Power Generation Unit for Road Transport By using Piezoelectric Sensors, which will convert the pressure and mechanical energy from the vehicles into electrical energy and making a Prototype for the same.

In order to satisfy the rising energy demands of global consumption, a new cleaner and renewable power source need to be explored, conceptualized, and developed. Fossil fuel consumption results in a drastic amount of CO emissions and greenhouse gasses being pumped into the air raising concerns on rising sea levels, increasing average temperature, carbon footprint and extreme weathering conditions. The increase of energy demand will cause a price increase on fossil fuel. Being dependent on renewable energy to account for a greater global consumption level is essential to overcome the risks associated with fossil fuels. A piezoelectric road that will produce electricity from the stress experienced by the roads due to the movement of automobiles. The main principle behind this is the piezoelectric effect. Piezoelectric effect is the ability of a material to generate electric charge by applying mechanical stress. The energy is produced from the consumer's participation and it does not require any separate source of input energy. The vitality of this technology arises as fossil fuels is being over consumed which makes it challenging to provide sufficient power in the next era as an effect of growing population.

PRINCIPAL



Course4job.com

Empowering and Inspiring

future professionals

Certificate of Internship **Electrical Design**

VIVEKANAND RATNAKAR

GNDEC BIDAR

3GN18EE417

August 15th to Sept 30th, 2021. Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined.



PSEED2043



www.prinstonsmart.com



PRINCIPAL

Guru Nanak Dev Engg. College and





CERTIFICATE

OFCOMPLETION



This is to certify that LAXIMIKANT

has successfully completed

INTERNSHIP Program of ____ days

DATA SCIENCE (AI & ML , PYTHON)

technology offered by

Times Institute of Management & Technical Studies certified by

AICRA - All India Council for Robotics & Automation



issued on:





TO WHOM IT MAY CONCERN

Internship certificate

Awarded to SHAH MUQEEM ULLAH QUADRI (University Reg no. 3GN16EE034)

For successfully completing the Internship on IOT AND EMBEDDED SYSTEMS from 15th August 2021 to 30thSeptember 2021 with a professional commendable work attitude throughout the mentioned duration.

For eIDEA Soft Solutions LLP

Nadeem Jamadar Managing Partner

PRINCIPAL



Certificate of Internship Electrical Design

RADHIKA

GURU NANAK DEV ENGINEERING COLLEGE BIDAR

3GN17EE409

Intern Has Successfully Completed The Internship. Intern Was Found To Be Good And Disciplined. Sept 1st to Sept 30th, 2021.



PSEED2085



www.prinstonsmart.com

Course4job.com

Empowering and Inspiring future professionals



PRINCIPAL
Guru Nanak Dev Engg. College, Bider