

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**DAY AND NIGHT INDICATOR**” is a bonafide work carried out by K.VILEHKYA(16911A0433), B.BHARGAVA(16911A0404), A.VINEETH(16911A0401), USAMAH ZAHEER(16911A0456) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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7/111, C.B. Post.,
Hyderabad-75.


External Examiner

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Department of Electronics and Communication
Engineering



CERTIFICATE

This is to certify that the project work entitled "Automatic plant irrigation system" is a bonafide work carried out by Ms. BARLA VINITHA REDDY (16911A0405), Ms. PALADUGU ANJALI (16911A0448), Ms. GUMMA JAYA SREE (16911A0421), Ms. MOHAMMED SHABANA BEGUM (16911A0443) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Department of Electronics and Communication Engineering



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This is to certify that the project work entitled "Laser Security System" is a bonafide work carried out by K.Shivani(16911A0427), K. Mamatha(17915A0402), B.Sowmya(16911A0409) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE

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PRINCIPAL

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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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CERTIFICATE


This is to certify that the project entitled "SIMULATION AND EXTRACTION OF RADAR SIGNAL PRARAMETER BY USING DIGITAL SIGNAL PROCESSING" is done by K. Nandini (16911A0436), G.K. Manikanth (16911A0418), B. Shankar (16911A0410) and M. Ajmal (16911A0441) submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY**, Hyderabad, under our guidance and supervision.

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**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled “SMART TROLLEY” is a bonafide work carried out by **Mr. Gudise Naveen (16911A0420)** , **Ms. CH.Jyothi kiranmai (16911A0411)**, **Mr. Dandu Sandeep (16911A0412)**, **Mr. P.Sharath Chandra (16911A0447)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

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Internal Supervisor

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Head of the Department

Dept. of ECE

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Internal Supervisor

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**BLUETOOTH CONTROLLED CAR USING ARDUINO**” is being submitted by D.Priyanka(16911A0413), M.Bharath(16911A0439), G.Sai Kumar(16911A0417), and M.Sharan Teja(16911A0439) of B.tech other university for the award IV-I semester of Electronics and Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any of any degree.

K.I. Iyer

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A. Kishore

PRINCIPAL

Vidya Jyothi Institute of Technology,
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A. Kishore

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Department of ECE
VJIT, Hyderabad


HEAD OF DEPARTMENT
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VJIT, Hyderabad


EXTERNAL EXAMINER


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Internal Supervisor

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Head of the Department

Dept. of ECE

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Head Of the Department
Department of ECE

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External Examiner

Rockwell Collins (India) Enterprises Pvt. Ltd.
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Phone: + 91 40 4033 4033
CIN: U72200TG2007PTC056315
www.collinsaerospace.com



Collins Aerospace
A United Technologies Company

Date: November 20, 2019

Mr. Tarun Halvi Ediga

PROJECT INTERNSHIP LETTER (Strictly Personal and Confidential)

Dear Tarun,

We are pleased to inform you that you would be deployed as a **Project Intern** at Rockwell Collins (India) Enterprises Private Limited. The duration of the Internship would be from **November 25th, 2019 to June 30th, 2020** and joining location will be based in **Hyderabad**.

You will be paid a stipend of **INR 12000/-** per month during the project internship

Please sign the letter as a token for your acceptance and confirm within **2 days of receipt of the letter**.

We take this opportunity to welcome you into the Rockwell Collins family and look forward to a mutually beneficial relationship.

Yours faithfully,

For Rockwell Collins (India) Enterprises Pvt Ltd

Aditya Rajan
Director - APAC Human Resources



ACCEPTANCE OF PROJECT INTERNSHIP LETTER

I accept this offer of project internship with the terms and conditions specified above and will report to project work on 25 Nov 2019

Signature

Name

(Handwritten Signature)
Collins Aerospace
United Technologies Company
Hyderabad, C.B. Post
401 032

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Hyderabad).

Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project work entitled " RAIN SENSING AUTOMATIC CAR WIPER " is a bonafide work carried out by J.RAMESH (16911A0423), P.ANVESH (16911A0450), K.ANIL KUMAR (16911A0431) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD, under the guidance and supervision.

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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**IMPLEMENTATION OF CMOS NAND GATE FOR ANTI THEFT APPLICATIONS**” is a bonafide work carried out by **M.Kishore Kumar(16911A0437), Nagulapally Sreeja(16911A0444), K.Saiteja(16911A0425), Gokikar Krishna(17915A0401)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE
VJIT, Hyderabad


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INTERNAL GUIDE

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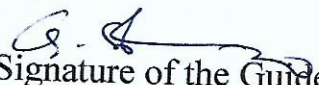
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(AN AUTONOMOUS INSTITUTION)
(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)
Department Of Electronics And Communication Engineering





CERTIFICATE

This is to certify that the mini project entitled “**ULTRASONIC DISTANCE MEASUREMENT**” done by K.MOUNISH(16911A0429), K. ANIRUDH (16911A0432) submitted to the faculty of Electronics & Communication Engineering, in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** for the academic year 2019-2020.

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Signature of the Guide
Department of ECE,
VJIT, Hyderabad.


Signature of the Head of the Department
Department of ECE,
VJIT, Hyderabad.


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
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Hyderabad-75.

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Hyd).

Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project work entitled "**AUTOMATIC WATER CONTROLLER USING 8052**" is a bonafide work carried out by **S. SUPRIYA (16911A0454)**, **P.AMULYA (16911A0451)**, **M. VENKATESH (16911A0438)**, **T.ARUN KUMAR (17915A0407)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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Department of Electronics and Communication Engineering




CERTIFICATE


This is to certify that the project entitled "SIMULATION AND EXTRACTION OF RADAR SIGNAL PRARAMETER BY USING DIGITAL SIGNAL PROCESSING" is done by K. Nandini (16911A0436), G.K. Manikanth (16911A0418), B. Shankar (16911A0410) and M. Ajmal (16911A0441) submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY**, Hyderabad, under our guidance and supervision.

The result embodied in this report has not been submitted to any other university or institute for any award of degree or diploma.


INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad


HEAD OF DEPARTMENT
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VJIT, Hyderabad


EXTERNAL EXAMINER


PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIII), C.B. Post.,
Hyderabad-75.

Vidya Jyothi Institute of Technology

An Autonomous Institution

Accredited by NAAC & NBA, Approved by AICTE New Delhi &
Permanently Affiliated to JNTUH

Department of Electronics and Communication
Engineering



CERTIFICATE

This is to certify that the project work entitled "Automatic plant irrigation system" is a bonafide work carried out by Ms. BARLA VINITHA REDDY (16911A0405), Ms. PALADUGU ANJALI (16911A0448), Ms. GUMMA JAYA SREE (16911A0421), Ms. MOHAMMED SHABANA BEGUM (16911A0443) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Internal guide
Department of ECE

Head Of the Department
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PRINCIPAL

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External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**IMPLEMENTATION OF CMOS NAND GATE FOR ANTI THEFT APPLICATIONS**” is a bonafide work carried out by **M.Kishore Kumar(16911A0437), Nagulapally Sreeja(16911A0444), K.Saiteja(16911A0425), Gokikar Krishna(17915A0401)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE
VJIT, Hyderabad


HEAD OF THE DEPARTMENT

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EXTERNAL EXAMINER


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**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled “SMART TROLLEY” is a bonafide work carried out by **Mr. Gudise Naveen (16911A0420)** , **Ms. CH.Jyothi kiranmai (16911A0411)**, **Mr. Dandu Sandeep (16911A0412)**, **Mr. P.Sharath Chandra (16911A0447)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad.**

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Internal Supervisor

Dept. of ECE

Head of the Department

Dept. of ECE

PRINCIPAL

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An Autonomous Institution

Accredited by NAAC & NBA, Approved by AICTE New Delhi &
Permanently Affiliated to JNTUH

Department of Electronics and Communication
Engineering



CERTIFICATE

This is to certify that the project work entitled "Automatic plant irrigation system" is a bonafide work carried out by Ms. BARLA VINITHA REDDY (16911A0405), Ms. PALADUGU ANJALI (16911A0448), Ms. GUMMA JAYA SREE (16911A0421), Ms. MOHAMMED SHABANA BEGUM (16911A0443) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Internal guide
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)


(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**AUTOMATIC STREET LIGHT CONTROL**" done by **P. Niharika(16911A0449)**, **V. Sindhuja(16911A0459)**, and **P. Pavan kumar(17915A0405)** submitted to the faculty of Electronics & Communication Engineering in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020


INTERNAL GUIDE
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Hyderabad-75.


EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Hyderabad).

Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project work entitled " RAIN SENSING AUTOMATIC CAR WIPER " is a bonafide work carried out by J.RAMESH (16911A0423), P.ANVESH (16911A0450), K.ANIL KUMAR (16911A0431) in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD, under the guidance and supervision.

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INTERNAL GUIDE


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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Hyd).

Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project work entitled "**AUTOMATIC WATER CONTROLLER USING 8052**" is a bonafide work carried out by **S. SUPRIYA (16911A0454)**, **P.AMULYA (16911A0451)**, **M. VENKATESH (16911A0438)**, **T.ARUN KUMAR (17915A0407)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Department of Electronics and Communication Engineering




CERTIFICATE

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Vidya Jyothi Institute of Technology

(An Autonomous Institution)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**DAY AND NIGHT INDICATOR**” is a bonafide work carried out by K.VILEHKYA(16911A0433), B.BHARGAVA(16911A0404), A.VINEETH(16911A0401), USAMAH ZAHEER(16911A0456) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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INTERNAL GUIDE


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Department of Electronics and Communication Engineering



CERTIFICATE

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INTERNAL GUIDE
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(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled "**TEMPERATURE BASED FAN SPEED CONTROLLER**" done by Praneeth Reddy (16911A0428), Sathweek (16911A0406) and Saipriya (16911A0460) submitted to the faculty of Electronics & Communication Engineering in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

INTERNAL GUIDE

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Department of Electronics and Communication Engineering





CERTIFICATE

This is to certify that the project entitled "**AUTOMATED SMOKE AND ALCOHOL MONITORING AND ALERTING SYSTEM**" is done by **M.Gayathri (16911A0492), CH D.Vijay kumar (16911A0466), B.Girish (16911A0463) and A.Sri Charan (16911A0461)** submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020


Internal Supervisor
Mr. S. UPENDRA MTech, (Ph. D)
Assoc. Professor Dept of ECE


Head of Department
Dr. K. Vasanth Ph. D
Professor, Dept of ECE


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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**SMART WALKING STICK FOR VISUALLY BLIND**” is a beneficial work carried out by **B.DEEPIKA** (16911A0464), **M.SAIKUMAR** (16911A0489), **B.UMA** (17915A0408), **G.SAIKUMAR** (17915A0410) in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** from Jawaharlal Nehru Technological University Hyderabad under the guidance and supervision.

The results embodied in this report have not been submitted to any other University or Institute for any award of degree or diploma.

INTERNAL SUPERVISOR

Mrs. Y. Aruna

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VJIT, Hyderabad.

HEAD OF THE DEPARTMENT

Dr. K. Vasanth Kumar

Department of ECE

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(An Autonomous Institution)
(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**





CERTIFICATE


This is to certify that the project entitled "**AUTOMATIC ROOM LIGHT USING PIR SENSOR AND WIFI MODULE**" is done by **B.VARUN(16911A0465), D.SUPRIYA(16911A0468), SHASHANK SAURAV (16911A04B0), K.DIVYAVANI (17915A0412)** in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad.


HEAD OF THE DEPARTMENT
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EXTERNAL EXAMINER


PRINCIPAL
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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)


(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**AUTOMATED SMOKE AND ALCOHOL MONITORING AND ALERTING SYSTEM**" is done by **M.Gayathri (16911A0492), CH D.Vijay kumar (16911A0466), B.Girish (16911A0463) and A.Sri Charan (16911A0461)** submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020

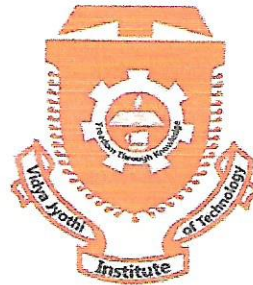

Internal Supervisor
Mr. S. UPENDRA MTech, (Ph. D)
Assoc. Professor Dept of ECE


Head of Department
Dr. K. Vasanth Ph. D
Professor, Dept of ECE


PRINCIPAL
Vidya Jyothi Institute of Technology
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Hyderabad-76.


EXTERNAL EXAMINER

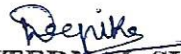
Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering

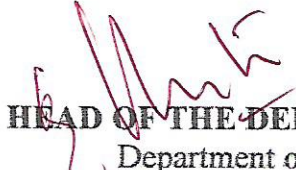



CERTIFICATE


This is to certify that the project work entitled **"PLANT PREDICTION USING DEEP LEARNING AND IMAGE PROCESSING"** is a bonafide work carried out by **SOMA RAM GANESH(16911A04B1), SOMA SHRUTHI(17915A0414), DHARMA TEJA(16911A04A8), VENKAT TEJA(16911A0467), PETER MOSHE(17915A0409)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad,** under our guidance and supervision.

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INTERNAL SUPERVISOR
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VJIT, Hyderabad


HEAD OF THE DEPARTMENT
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(An Autonomous Institution)
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**





CERTIFICATE


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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad.


HEAD OF THE DEPARTMENT
Department of ECE
VJIT, Hyderabad.


EXTERNAL EXAMINER


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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled "**LOW POWER MINI INVERTER**", being submitted by **D. PRANITHA (16911A0469)**, **P. NASREEN (16911A0469)**, **P. PAVAN KUMAR (16911A0497)**, and **K. VENKATESH (17915A0411)** in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLALNEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL GUIDE
Mr. A. Laxman
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VJIT, Hyderabad

HEAD OF DEPARTMENT
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Department of ECE
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EXTERNAL EXAMINER

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(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics And Communication Engineering



CERTIFICATE

This is to certify that the project report entitled “ **DRIVER ANTI SLEEP ALARM USING 555 TIMER**”, being submitted by **V.MRUDULA** (16911A04B6) , **E.NIKITHA** (16911A0470) , **V.SRAVANI** (17915A0415) , **G.YASHWANTH** (16911A0472) in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to **VIDYA JYOTHI INSTITUTE OF TECHNOLOGY** , Hyderabad is a record of bonafied work carried out by them under our guidance and supervision.

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Ch. Sule
31/10/19
INTERNAL SUPERVISOR

Department Of ECE

VJIT , Hyderabad

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Department Of ECE

VJIT , Hyderabad

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Hyderabad-500 075.

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Department of Electronics And Communication Engineering



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Ch. Sule
31/10/19
INTERNAL SUPERVISOR

Department Of ECE

VJIT , Hyderabad

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Department Of ECE

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Hyderabad-500 075.

[Signature]

EXTERNAL EXAMINER

Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "HAND GESTURE CONTROLS USING ARDUINO" is a bonafide work carried out by G.Sai Vamshi(16911A0473), K.Deepthi(16911A0477), M.Anvitha Erlinda(16911A0483), P.Akshay kumar(16911A04A1) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

Deepika
INTERNAL GUIDE
Department of ECE
VJIT,Hyderabad

[Signature]
HEAD OF THE DEPARTMENT
Department of ECE
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Hyderabad-75.

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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)


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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**RFID BASED ATTENDANCE SYSTEM**” is a bonafide work carried out by N.Bhanu Prakash Reddy(16911A0493), G.Bhagavan(16911A0474), S.Anand Surya(16911A04A7) & L.Santosh(16911A0482) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision for the academic year of 2019-2020.

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INTERNAL SUPERVISOR
Department of ECE
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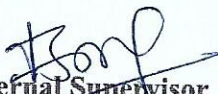
(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


Department of Electronics and Communication Engineering





CERTIFICATE

This is to certify that the project entitled "AUTOMATIC RECOGNITION OF VEHICLE NUMBER PLATE" is done by P.Sai Mithun Raj (16911A04A0), Y. Sanjana Reddy (16911A04C0), J.Sudha Devi (16911A0475) and V. Shravan Reddy (16915A04B8) submitted to the faculty Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019-2020.


Internal Supervisor
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Head Of the Department
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VJIT, Hyderabad.


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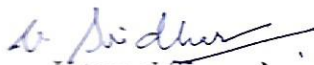
Department of Electronics and Communication Engineering

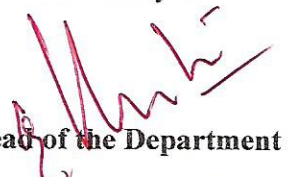


CERTIFICATE

This is to certify that the project entitled “**DTMF BASED DOOR LOCKING SYSTEM**”, done by P.Supraja(16911A0499), J. Ram Prasad (16911A0476), M. Rahul Yadav (16911A0486), T. Vijaya Rekha (16911A04B3) submitted to the faculty of Electronics & Communication Engineering, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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Internal Supervisor
Department of ECE
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Head of the Department
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PRINCIPAL

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EXTERNAL EXAMINER

Vidya Jyothi Institute of Technology (Autonomous)
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CERTIFICATE

This is to certify that the project work entitled "HAND GESTURE CONTROLS USING ARDUINO" is a bonafide work carried out by G.Sai Vamshi(16911A0473), K.Deepthi(16911A0477), M.Anvitha Erlinda(16911A0483), P.Akshay kumar(16911A04A1) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Deepika
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Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "**MOBILE PHONE DETECTOR**" is a confide work carried out by **KAIPA UDAY KUMAR REDDY (16911A0478)**, **KUNCHALA MADHU (16911A0481)**, **PULLA SURENDRA (16911A04A2)**, **RAVULA SHARANYA (16911A04A5)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Department of Electronics And Communication Engineering/Technology



CERTIFICATE

This is to certify that the project work report entitled "**UNDERGROUND CABLE FAULT DETECTION**", being submitted by **Ms. V. SRUJANA** (16911A04B9), **Mr.M. AJAY KUMAR** (16911A0491), **Mr.M. PHANI SAI** (16911A0487), **Mr. K.NAVA SURYA REDDY** (16911A0479) in partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

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Department of Electronics and communication Engineering



CERTIFICATE

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09/12/19
INTERNAL SUPERVISOR
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Deepika
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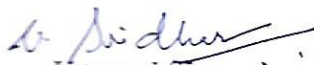
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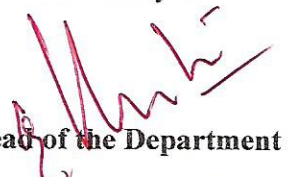


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Internal Supervisor
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Head of the Department
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Department of Electronics And Communication Engineering/Technology



CERTIFICATE

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(An Autonomous Institution)

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**SMART WALKING STICK FOR VISUALLY BLIND**” is a beneficial work carried out by **B.DEEPIKA** (16911A0464), **M.SAIKUMAR** (16911A0489), **B.UMA** (17915A0408), **G.SAIKUMAR** (17915A0410) in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** from Jawaharlal Nehru Technological University Hyderabad under the guidance and supervision.

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INTERNAL SUPERVISOR

Mrs. Y. Aruna

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HEAD OF THE DEPARTMENT

Dr. K. Vasanth Kumar

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Department of Electronics And Communication Engineering/Technology



CERTIFICATE

This is to certify that the project work report entitled “**AUTOMATIC RAIN SENSING WIPER SYSTEM USING 555 TIMER**”, being submitted by **Ms.V.SUSHMITHA** (16911A04B7), **Ms.M.DIVYA** (16911A0490), **Ms.S.M.FIRDOUS AFREEN** (16911A04A9), **Ms.S.ANUSHA SREE** (15911A0453) in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY(AUTONOMOUS)
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Department of Electronics And Communication Engineering/Technology



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INTERNAL SUPERVISOR
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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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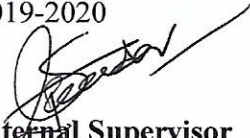
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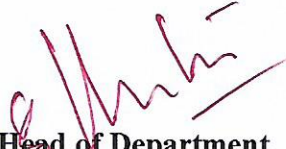
Department of Electronics and Communication Engineering





CERTIFICATE

This is to certify that the project entitled "**AUTOMATED SMOKE AND ALCOHOL MONITORING AND ALERTING SYSTEM**" is done by M.Gayathri (16911A0492), CH D.Vijay kumar (16911A0466), B.Girish (16911A0463) and A.Sri Charan (16911A0461) submitted to the faculty of Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020


Internal Supervisor
Mr. S. UPENDRA MTech, (Ph. D)
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Professor, Dept of ECE


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Department of Electronics and Communication Engineering



CERTIFICATE

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INTERNAL SUPERVISOR
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Department Of Electronics And Communication Engineering





CERTIFICATE


This is to certify that the project report titled “**Smart Blind Stick**” is being submitted by Racha Ganesh (16911A04A4), P.PavanKalyan Reddy (16911A04A3), Thota Arun (16911A04B4), P.N.Pranay (16911A0494) in partial fulfilment for the award of the Degree of the Bachelor of Technology in **Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Hyderabad** is a bonafied work carried out by them under my guidance and supervision.

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External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled "**LOW POWER MINI INVERTER**", being submitted by **D. PRANITHA (16911A0469)**, **P. NASREEN (16911A0469)**, **P. PAVAN KUMAR (16911A0497)**, and **K. VENKATESH (17915A0411)** in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLALNEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL GUIDE
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INTERNAL GUIDE
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09/12/19
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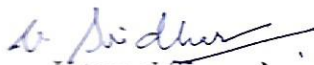
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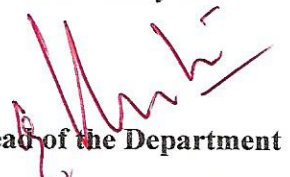


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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**GSM BASED LCD DISPLAY SYSTEM**" done by **K. PUSHPA RAMYA(16911A04E4)**, **E. AKHIL PRASAD(16911A04C7)**, **J.VISHAL(17915A0418)**, **MD.ZAKEER(15911A0460)**, **MADHU(15911A0416)** submitted to the faculty of Electronics and Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** for the academic year of 2019-2020.

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Internal Guide
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Department of Electronics And Communication Engineering/Technology



CERTIFICATE

This is to certify that the project work report entitled “**AUTOMATIC RAIN SENSING WIPER SYSTEM USING 555 TIMER**”, being submitted by **Ms.V.SUSHMITHA** (16911A04B7), **Ms.M.DIVYA** (16911A0490), **Ms.S.M.FIRDOUS AFREEN** (16911A04A9), **Ms.S.ANUSHA SREE** (15911A0453) in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

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Department of ECE

VJIT, Hyderabad

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Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**GSM BASED LCD DISPLAY SYSTEM**" done by **K. PUSHPA RAMYA(16911A04E4)**, **E. AKHIL PRASAD(16911A04C7)**, **J.VISHAL(17915A0418)**, **MD.ZAKEER(15911A0460)**, **MADHU(15911A0416)** submitted to the faculty of Electronics and Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** for the academic year of 2019-2020.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work emitted "**BRAKE FAILURE INDICATOR SYSTEM**" done by **KUCHURU ANIRUDH KUMAR REDDY (16911A04L1)**, **VARRE MAHESH (16911A04P3)**, **ROUTHKARTHIK GOUD (16911A04N2)**, **K.ANIL KUMAR (15911A0472)** is benefited work in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision.

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**



CERTIFICATE

This is to certify that the project entitled "**WIRELESS SWITCH CIRCUIT**", done by **B.ROHAN KUMAR** bearing Roll Number: (15911A0465), **M.ASHOK YADAV** bearing Roll Number: (15911A0486), **T.R.AKEEL KUMAR** bearing Roll Number: (15911A04B3), **M.STEPHEN** bearing Roll Number: (16915A0423) submitted to the faculty of Electronics & Communication Engineering, in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY**.

Signature of the guide

Mr. Ch. Sandeep
Mr. Ch. Sandeep

Assistant Professor

Dr. Harikrishna Kamatham
Signature of the Head of the Department

Dr. Harikrishna Kamatham

Professor & HOD

A. Lakshmi
PRINCIPAL

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Hyderabad-75.

M. Ashok
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03/01/19

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CERTIFICATE

This is to certify that the project work entitled “**IMPLEMENTATION OF CMOS NAND GATE FOR ANTI THEFT APPLICATIONS**” is a bonafide work carried out by **M.Kishore Kumar(16911A0437), Nagulapally Sreeja(16911A0444), K.Saiteja(16911A0425), Gokikar Krishna(17915A0401)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled "Laser Security System" is a bonafide work carried out by K.Shivani(16911A0427), K. Mamatha(17915A0402), B.Sowmya(16911A0409) in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR

Department of ECE

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**BLUETOOTH CONTROLLED CAR USING ARDUINO**” is being submitted by D.Priyanka(16911A0413), M.Bharath(16911A0439), G.Sai Kumar(16911A0417), and M.Sharan Teja(16911A0439) of B.tech other university for the award IV-I semester of Electronics and Communication Engineering is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any of any degree.

K.I. Iyer

INTERNAL GUIDE

Department of ECE

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[Signature]

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A. Kishore

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(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**AUTOMATIC STREET LIGHT CONTROL**" done by **P. Niharika(16911A0449)**, **V. Sindhuja(16911A0459)**, and **P. Pavan kumar(17915A0405)** submitted to the faculty of Electronics & Communication Engineering in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** for the academic year of 2019-2020


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EXTERNAL EXAMINER

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(An Autonomous Institute, Hyd).

Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project work entitled "**AUTOMATIC WATER CONTROLLER USING 8052**" is a bonafide work carried out by **S. SUPRIYA (16911A0454)**, **P.AMULYA (16911A0451)**, **M. VENKATESH (16911A0438)**, **T.ARUN KUMAR (17915A0407)** in partial fulfilment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**, under the guidance and supervision.

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**SMART WALKING STICK FOR VISUALLY BLIND**” is a beneficial work carried out by **B.DEEPIKA** (16911A0464), **M.SAIKUMAR** (16911A0489), **B.UMA** (17915A0408), **G.SAIKUMAR** (17915A0410) in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** from Jawaharlal Nehru Technological University Hyderabad under the guidance and supervision.

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INTERNAL SUPERVISOR

Mrs. Y. Aruna

Department of ECE

VJIT, Hyderabad.

HEAD OF THE DEPARTMENT

Dr. K. Vasanth Kumar

Department of ECE

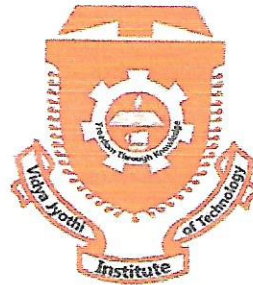
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EXTERNAL EXAMINER

PRINCIPAL

Vidya Jyothi Institute of Technology
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Hyderabad-500 075.

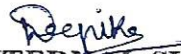
Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering

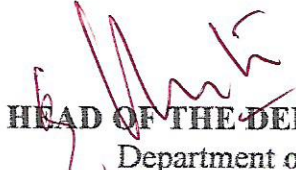


CERTIFICATE


This is to certify that the project work entitled **"PLANT PREDICTION USING DEEP LEARNING AND IMAGE PROCESSING"** is a bonafide work carried out by **SOMA RAM GANESH(16911A04B1), SOMA SHRUTHI(17915A0414), DHARMA TEJA(16911A04A8), VENKAT TEJA(16911A0467), PETER MOSHE(17915A0409)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad,** under our guidance and supervision.

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INTERNAL SUPERVISOR
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External Examiner


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Hyderabad-75,

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**SMART WALKING STICK FOR VISUALLY BLIND**” is a beneficial work carried out by **B.DEEPIKA** (16911A0464), **M.SAIKUMAR** (16911A0489), **B.UMA** (17915A0408), **G.SAIKUMAR** (17915A0410) in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** from Jawaharlal Nehru Technological University Hyderabad under the guidance and supervision.

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INTERNAL SUPERVISOR

Mrs. Y. Aruna

Department of ECE

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HEAD OF THE DEPARTMENT

Dr. K. Vasanth Kumar

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled "**LOW POWER MINI INVERTER**", being submitted by **D. PRANITHA (16911A0469)**, **P. NASREEN (16911A0469)**, **P. PAVAN KUMAR (16911A0497)**, and **K. VENKATESH (17915A0411)** in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLALNEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

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Mr. A. Laxman
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VJIT, Hyderabad

HEAD OF DEPARTMENT
Mr. K. Vasanth
Department of ECE
VJIT, Hyderabad

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**





CERTIFICATE


This is to certify that the project entitled "**AUTOMATIC ROOM LIGHT USING PIR SENSOR AND WIFI MODULE**" is done by **B.VARUN(16911A0465), D.SUPRIYA(16911A0468), SHASHANK SAURAV (16911A04B0), K.DIVYAVANI (17915A0412)** in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad.


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Vidya Jyothi Institute of Technology

Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "**FLAME SENSOR USING ARDUINO**" is a bonafide work carried out by **KORE SHASHI KUMAR(16911A0480), PATLOLLA ANVITHA(16911A0498), VEDATI SHRAVAN(16911A04B5), OM PRAKASH SIRIPOLU(17915A0413)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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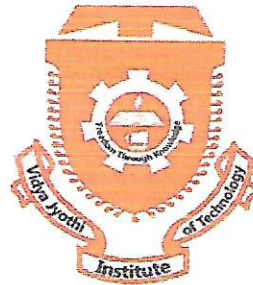
09/12/19
INTERNAL SUPERVISOR
Department of ECE
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VJIT, Hyderabad

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External Examiner

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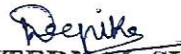
Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering




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Department of Electronics and Communication Engineering




CERTIFICATE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING





CERTIFICATE

This is to certify that the project work entitled “Speed Checker to Detect Rash Driving on Highways” is a bonafied work carried out by **B.RAJKUMAR** (16911A04J6), **P.SUSHMA REDDY** (16911A04P9), **K.GANESH** (17915A0425), **P.SAI CHANDRA REDDY** (17915A0429) in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** by **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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Hyderabad-75.


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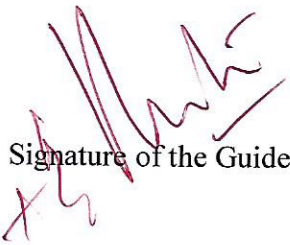
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**MUSIC RHYTHM LED FLASHLIGHT**”, D.Harshitha Raj (16911A04K1), K.Akhil Anand (17915A0426), Ch.Sai Kumar (16911A04K0) and K.Anurag (16911A04K2) submitted to the faculty of Electronics and Communication engineering, in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019 – 2020.


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING





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Hyderabad-75.


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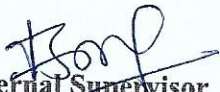
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CERTIFICATE

This is to certify that the project entitled "AUTOMATIC RECOGNITION OF VEHICLE NUMBER PLATE" is done by P.Sai Mithun Raj (16911A04A0), Y. Sanjana Reddy (16911A04C0), J.Sudha Devi (16911A0475) and V. Shravan Reddy (16915A04B8) submitted to the faculty Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019-2020.


Internal Supervisor
Mr. Ch. Sandeep
Assnt professor, Dept of ECE
VJIT, Hyderabad


Head Of the Department
Dr K. Vasanth PhD
Professor, Dept of ECE
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Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "HAND GESTURE CONTROLS USING ARDUINO" is a bonafide work carried out by G.Sai Vamshi(16911A0473), K.Deepthi(16911A0477), M.Anvitha Erlinda(16911A0483), P.Akshay kumar(16911A04A1) in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING by the JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad, under our guidance and supervision.

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Deepika
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VJIT,Hyderabad

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Department of ECE
VJIT, Hyderabad

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Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "**MOBILE PHONE DETECTOR**" is a confide work carried out by **KAIPA UDAY KUMAR REDDY (16911A0478)**, **KUNCHALA MADHU (16911A0481)**, **PULLA SURENDRA (16911A04A2)**, **RAVULA SHARANYA (16911A04A5)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

The results embodied in this report have not been submitted to any other university or institute for the award of any degree.

INTERNAL SUPERVISOR
Mrs. A. Pavitra, M.tech
Department of ECE
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HEAD OF DEPARTMENT
Dr. K. Vasanth, Ph.D.
Department of ECE
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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi, Accredited by NBA & Permanently Affiliated to JNTUH, Hyderabad
An Autonomous Institution
Aziz Nagar, Himayath Nagar(V), C.B Post, Hyderabad -500075


Department Of Electronics And Communication Engineering





CERTIFICATE


This is to certify that the project report titled “**Smart Blind Stick**” is being submitted by Racha Ganesh (16911A04A4), P.PavanKalyan Reddy (16911A04A3), Thota Arun (16911A04B4), P.N.Pranay (16911A0494) in partial fulfilment for the award of the Degree of the Bachelor of Technology in **Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Hyderabad** is a bonafied work carried out by them under my guidance and supervision.

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Internal Guide
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Department Of Electronics And Communication Engineering





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External Examiner

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(An Autonomous Institution)
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New Delhi & Permanently Affiliated to JNTHU
Department of Electronics and communication Engineering



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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Permanently Affiliated To JNTUH, NAAC accredited, Hyd)
Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project work entitled “**RFID BASED ATTENDANCE SYSTEM**” is a bonafide work carried out by N.Bhanu Prakash Reddy(16911A0493), G.Bhagavan(16911A0474), S.Anand Surya(16911A04A7) & L.Santosh(16911A0482) in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision for the academic year of 2019-2020.

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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad

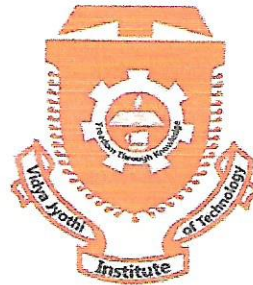
HEAD OF DEPARTMENT
Department of ECE
VJIT, Hyderabad

PRINCIPAL

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Aziznagar, V.V. C.B. Post,
Hyderabad-500 075.

EXTERNAL EXAMINER

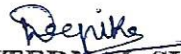
Vidya Jyothi Institute of Technology (Autonomous)
Aziz Nagar, Hyderabad -500075
Department of Electronics and communication Engineering




CERTIFICATE


This is to certify that the project work entitled **"PLANT PREDICTION USING DEEP LEARNING AND IMAGE PROCESSING"** is a bonafide work carried out by **SOMA RAM GANESH(16911A04B1), SOMA SHRUTHI(17915A0414), DHARMA TEJA(16911A04A8), VENKAT TEJA(16911A0467), PETER MOSHE(17915A0409)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad,** under our guidance and supervision.

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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad


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VJIT, Hyderabad


External Examiner


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Hyderabad-75,

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY(AUTONOMOUS)

(Permanently affiliated to JNTU Hyderabad, NAAC accredited)

Department of Electronics And Communication Engineering/Technology



CERTIFICATE

This is to certify that the project work report entitled “**AUTOMATIC RAIN SENSING WIPER SYSTEM USING 555 TIMER**”, being submitted by **Ms.V.SUSHMITHA** (16911A04B7), **Ms.M.DIVYA** (16911A0490), **Ms.S.M.FIRDOUS AFREEN** (16911A04A9), **Ms.S.ANUSHA SREE** (15911A0453) in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad under our guidance and supervision. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

INTERNAL SUPERVISOR

Department of ECE

VJIT, Hyderabad

HEAD OF THE DEPARTMENT

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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**





CERTIFICATE


This is to certify that the project entitled "**AUTOMATIC ROOM LIGHT USING PIR SENSOR AND WIFI MODULE**" is done by **B.VARUN(16911A0465), D.SUPRIYA(16911A0468), SHASHANK SAURAV (16911A04B0), K.DIVYAVANI (17915A0412)** in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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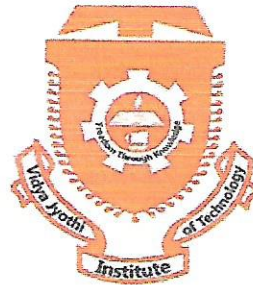

INTERNAL SUPERVISOR
Department of ECE
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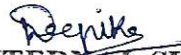
Vidya Jyothi Institute of Technology (Autonomous)
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Department of Electronics and communication Engineering




CERTIFICATE


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INTERNAL SUPERVISOR
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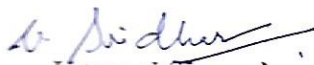
Department of Electronics and Communication Engineering

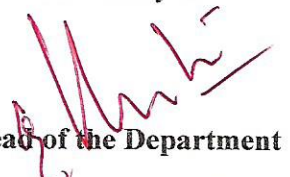


CERTIFICATE

This is to certify that the project entitled “**DTMF BASED DOOR LOCKING SYSTEM**”, done by P.Supraja(16911A0499), J. Ram Prasad (16911A0476), M. Rahul Yadav (16911A0486), T. Vijaya Rekha (16911A04B3) submitted to the faculty of Electronics & Communication Engineering, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad, under our guidance and supervision.

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Internal Supervisor
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Department Of Electronics And Communication Engineering





CERTIFICATE


This is to certify that the project report titled “**Smart Blind Stick**” is being submitted by Racha Ganesh (16911A04A4), P.PavanKalyan Reddy (16911A04A3), Thota Arun (16911A04B4), P.N.Pranay (16911A0494) in partial fulfilment for the award of the Degree of the Bachelor of Technology in **Electronics and Communication Engineering** to the **Jawaharlal Nehru Technological University, Hyderabad** is a bonafied work carried out by them under my guidance and supervision.

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Internal Guide
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Head of the Department
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Department of Electronics and communication Engineering



CERTIFICATE

This is to certify that the project work entitled "**FLAME SENSOR USING ARDUINO**" is a bonafide work carried out by **KORE SHASHI KUMAR(16911A0480), PATLOLLA ANVITHA(16911A0498), VEDATI SHRAVAN(16911A04B5), OM PRAKASH SIRIPOLU(17915A0413)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad**, under our guidance and supervision.

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09/12/19
INTERNAL SUPERVISOR
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VJIT, Hyderabad

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External Examiner

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics And Communication Engineering



CERTIFICATE

This is to certify that the project report entitled “ **DRIVER ANTI SLEEP ALARM USING 555 TIMER**”, being submitted by **V.MRUDULA** (16911A04B6) , **E.NIKITHA** (16911A0470) , **V.SRAVANI** (17915A0415) , **G.YASHWANTH** (16911A0472) in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** to **VIDYA JYOTHI INSTITUTE OF TECHNOLOGY** , Hyderabad is a record of bonafied work carried out by them under our guidance and supervision.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

Ch. Sule
31/10/19
INTERNAL SUPERVISOR

Department Of ECE

VJIT , Hyderabad

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HEAD OF DEPARTMENT

Department Of ECE

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Hyderabad-500 075.

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VIDYA JYOTHI INSTITUTE OF TECHNOLOGY(AUTONOMOUS)

(Permanently affiliated to JNTU Hyderabad, NAAC accredited)

Department of Electronics And Communication Engineering/Technology



CERTIFICATE

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INTERNAL SUPERVISOR

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EXTERNAL EXAMINER

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Department of Electronics and Communication Engineering





CERTIFICATE

This is to certify that the project entitled "AUTOMATIC RECOGNITION OF VEHICLE NUMBER PLATE" is done by P.Sai Mithun Raj (16911A04A0), Y. Sanjana Reddy (16911A04C0), J.Sudha Devi (16911A0475) and V. Shravan Reddy (16915A04B8) submitted to the faculty Electronics & Communication Engineering in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019-2020.


Internal Supervisor
Mr. Ch. Sandeep
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Head Of the Department
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Department of Electronics And Communication Engineering/Technology



CERTIFICATE

This is to certify that the project work report entitled "**UNDERGROUND CABLE FAULT DETECTION**", being submitted by **Ms. V. SRUJANA** (16911A04B9), **Mr.M. AJAY KUMAR** (16911A0491), **Mr.M. PHANI SAI** (16911A0487), **Mr. K.NAVA SURYA REDDY** (16911A0479) in partial fulfilment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING** by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** under our guidance and supervision.

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INTERNAL SUPERVISOR
Department of ECE
VJIT, Hyderabad

HEAD OF THE DEPARTMENT
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VJIT, Hyderabad

PRINCIPAL
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Himayatnagar (VIII), C.B. Post.,
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EXTERNAL EXAMINER

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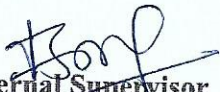
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Department of Electronics and Communication Engineering





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Assnt professor, Dept of ECE
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Head Of the Department
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(An Autonomous Institution)

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Permanently Affiliated to JNTU, Hyderabad)


Department of Electronics and Communication Engineering




CERTIFICATE

This is to certify that the project entitled "**GSM BASED LCD DISPLAY SYSTEM**" done by **K. PUSHPA RAMYA(16911A04E4)**, **E. AKHIL PRASAD(16911A04C7)**, **J.VISHAL(17915A0418)**, **MD.ZAKEER(15911A0460)**, **MADHU(15911A0416)** submitted to the faculty of Electronics and Communication Engineering in partial fulfilment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Hyderabad** for the academic year of 2019-2020.

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Head of the Department
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VJIT, Hyderabad


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Department of ECE
VJIT, Hyderabad


EXTERNAL EXAMINER


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(An Autonomous Institution)

(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING





CERTIFICATE

This is to certify that the project work entitled “Speed Checker to Detect Rash Driving on Highways” is a bonafied work carried out by **B.RAJKUMAR** (16911A04J6), **P.SUSHMA REDDY** (16911A04P9), **K.GANESH** (17915A0425), **P.SAI CHANDRA REDDY** (17915A0429) in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** by **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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INTERNAL GUIDE
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HEAD OF DEPARTMENT
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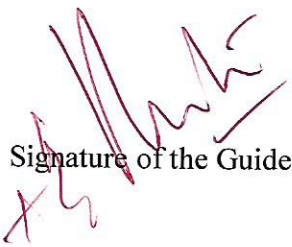
(Permanently Affiliated to JNTUH, NAAC accredited, Hyderabad)

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**MUSIC RHYTHM LED FLASHLIGHT**”, D.Harshitha Raj (16911A04K1), K.Akhil Anand (17915A0426), Ch.Sai Kumar (16911A04K0) and K.Anurag (16911A04K2) submitted to the faculty of Electronics and Communication engineering, in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019 – 2020.


Signature of the Guide


Signature of the Head of the Department


PRINCIPAL
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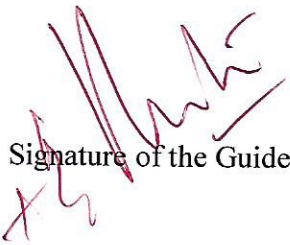
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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the project entitled “**MUSIC RHYTHM LED FLASHLIGHT**”, D.Harshitha Raj (16911A04K1), K.Akhil Anand (17915A0426), Ch.Sai Kumar (16911A04K0) and K.Anurag (16911A04K2) submitted to the faculty of Electronics and Communication engineering, in partial fulfillment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING for the academic year of 2019 – 2020.


Signature of the Guide


Signature of the Head of the Department


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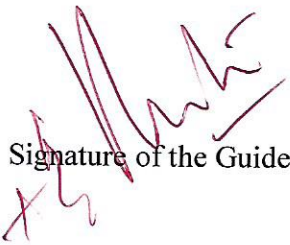
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This is to certify that the project work entitled “Speed Checker to Detect Rash Driving on Highways” is a bonafied work carried out by **B.RAJKUMAR** (16911A04J6), **P.SUSHMA REDDY** (16911A04P9), **K.GANESH** (17915A0425), **P.SAI CHANDRA REDDY** (17915A0429) in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in **Electronics and Communication Engineering** by **JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, Hyderabad**, under our guidance and supervision.

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