On

Artificial Intelligence Robot

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

A.SUNIL 157Z1A0401

A.PRAMEELA 157Z1Z0404

A.CHANDRA VATHI 157Z1A0405

B.MALLIKARJUNA 157Z1A0409

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This is to certify that the thesis entitled "ARTIFICIAL INTELLIGENCE ROBOT" that is being submitted by A. SUNIL (157Z1A0401), A. PRAMEELA (157Z1A0404), A. CHANDRAVATH I (157Z1A0405), B. MALLIKARJUNA (157Z1A0409), C. NAGAMIAH (167Z1A0410) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Solar Power LED Street light

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

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D.PEDDA KULAI	157Z1Z0414
K.MALLIKARJUNA	157Z1A0424
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CERTIFICATE

This is to certify that the thesis entitled "SOLAR POWER LED STREET LIGHT" that is being submitted by D.BEULA (157Z1A0411), D.PEDDAKULAI (157Z1A0414), K.MALLIKARJU NA (157Z1A0424), K.R.TULASI (157Z1A0428), K.KALIMMAA (157Z1A0431), M.LALLI KRISHNA (157Z1A0433) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Spying Robot

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the thesis entitled "SPYING ROBOT" that is being submitted by M.UDAY KUMAR (157Z1A0436), N.GIRISHNAIK (157Z1A0438), N.RUPADEVI (157Z1A0439), P. SRUTH (157Z1A0441), P.VENKATESWARI (157Z1A0422) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Solar Charger

Submitted in partial fulfillment of the requirement for the award of the degree of

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IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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S.ARUNA	157Z1A0454
S.PAVAN KUMAR	157Z1A0455
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On

Metal Detector

Submitted in partial fulfillment of the requirement for the award of the degree of

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IN

ELECTRONICS AND COMMUNICATION ENGINEERING

$\mathbf{B}\mathbf{y}$

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This is to certify that the thesis entitled "METAL DETECTOR" that is being submitted by E.VENKATESH (157Z1A0462), Y.NAVEEN (157Z1A0463), M.SRIHARI (157Z1A0464), G.ANJANEYULU (157Z1A0465), B.MALLESH (167Z5A0401) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Forest Fire Detection

Submitted in partial fulfillment of the requirement for the award of the degree of

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This is to certify that the thesis entitled "FOREST FIRE DETECTION" that is being submitted by B.NAVEENA (167Z1A0402). B.SRINIVASULU (167Z1A0403), B.HIMABIND U(167Z1A0404), B.PAVAN KALYAN (167Z1A0405), CH.ARUNA (167Z1A0406) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Automatic Light Control

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the thesis entitled "AUTOMATIC LIGHT CONTROL" that is being submitted by D. JAYARAMIRED DYBHARATHI (167Z1A0407), D. VEERA VASANTHA RAYUDU (167Z1A0408), D. HARIKANTHA (167Z1A0409), G. TULASI (167Z1A0411), I.S PANDANA (167Z1A0412) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Solar Tracking System

Submitted in partial fulfillment of the requirement for the award of the degree of

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IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the thesis entitled "SOLAR TRACKER SYSTEM" that is being submitted by K.KULLAYAMMA (167Z1A0413), K.PARUSHARAMUDU (167Z1A0415), M.MADHU (167Z1A0416), MANJULAVENNELA (167Z1A0417), M.SRIKANTHREDDY (167Z1A0420) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATIONENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Advanced Security System

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IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the thesis entitled "ADVANCED SECURITY SYSTEM" that is being submitted by P.KIRAN (167Z1A0422), T.SIVANAGALAKSHMI (167Z1A0423), U.RADHA MMA (167Z1A0424), V.MOHAN (167Z1A0427), V.SURESH YADAV (167Z1A0428) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Automatic Intensity Control

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

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This is to certify that the thesis entitled "AUTOMATIC INTENSITY CONTROL" that is being submitted by M.GOWTHAM (167Z1A0418), ACMANOHAR (177Z1A0401), A.CHANDANA (177Z1A0402), B.ASWARTHANARAYANA (177Z1A0404), N.TIRUPATIRED DY (187Z5A0401) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Virtual reality -Based system for flood rescue Mnagement
Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

A.JEEVAN SAI	187Z1A0401
B.NAVEETHA	187Z1Z0403
B.PRAVALIKA	187Z1A0404
B.PALLI RAMU	187Z1A0405
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This is to certify that the thesis entitled "VIRTUAL REALITY BASED SYSTEM FOR FLOOD RESCUE'MANAGEMENT" that submitted by E. VENKATESH (157Z1A0462), Y. NAVEEN (157Z1A0463), M. SRIHARI (157Z1A0464), G. ANJANEYULU (157Z1A0465), B. MALLESH (167Z5A0401) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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On

Vehicle-vehicle communication using LI-FI technology

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

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2018-2022

INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE

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This is to certify that the thesis entitled "VEHICLE -VEHICLE COMMUNICATION USING LI-FI TECHNOLOGY" that submitted by C.SRAVANI (187Z1A0408), C.GEETHANJALI (187Z1A0409), D.VIJAY KUMAR (187Z1A0410), D.V.LAKSHMI (187Z1A0411), D.RAJENDRA KUMAR (187Z5A0412) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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

Internal Guide

CH.Nagendra, M.Tech

Assoc. Professor

Head of the Department

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Professor

External Examiner

PRINCIPAL
INDIRA INSTITUTE OF TECHNOLOGY & SCIENCES
Darimadugu, Markapur-523 313
Prakasam Dist.(A.P.) India.

On

Driver state analysis using AI to avoid accidents

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

 $\mathbf{B}\mathbf{y}$

D.REVATHI	
	187Z1A0413
G.DHARANI	187Z1A0415
G.LATHA SREE	187Z1A0416
G.SOWJANYA	187Z1A0417
G.S.SIDDESWARI	10/Z1AU41/
	187Z1A0418

Under the esteemed Guidance of

T.MAHENDRA, M. Tech

Assoc. Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE

Approved by AICTE(Affiliated to J N T UNIVERSITY, KAKINADA, A.P, INDIA) Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320

MARKAPUR-523316, A.P

2018-2022

INDIRA INSTITUTE OF TECHNOLOGY

(Approved by AICTE Affiliated to J N T UNIVERSITY, KAKINA Darimadugu (v), Markapur (m), Prakasam (D)



This is to certify that the thesis entitled "DRIVER STATE ANALYSIS USING AI TO AVOID ACCIDENTS" that submitted by D.REVATHI (187Z1A0413), G.DHARANI (187Z1A0415), G.LATHA SREE (187Z1A0416), G.SOWJANYA (187Z1A0417), G.S.SIDDESWARI (187Z1A0418) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Internal Guide

T.Mahendra, M.Tech

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On

RASPBERRY PI BASED VEHICLE NUMBER PLATE RECOGNIZITION USING OCR

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

G.SIRISHA	187Z1A0419
J.PREETHI	187Z1A0420
K.ASHOK REEDY	187Z1A0421
K.AJAY KALYAN	187Z1A0422
K.MADHU SUDHAN	187Z1A0423

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CERTIFICATE

This is to certify that the thesis entitled "RASPBERRY PI BASED VEHICLE NUMBER PLATE RECOGNISITIONUSINGOCRthatsubmittedbyG.SIRISHA(187Z1A0419),J.PREETHI(187Z1A0420),K.A SHOKKUMARREDDY(187Z1A0421),K.AJAYKALYAN(187Z1A0422),K.MADHUSUDHAN(187Z1A0423) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Internal Guide

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rimadugu, Markapur 523 316

On

FIRE DETECTION AND PREVENTION SYSTEM USING MACHINE LEARNING

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

K.YAGANANDA REDDY	187Z1A0424
K.PREETHI	187Z1A0425
M.SIVA KUMARI	187Z1A0426
M.SRAVANI	187Z1A0427

P.MUNUSWAMY

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187Z1A0429

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Darimadugu (v), Markapur (m), Prakasam (D) 525320 put 100012.

J. Darius



This is to certify that the thesis entitled "FIRE DETECTION AND REVENTION USING AMCHINE LEARNINGthatsubmittedbyK.YAGANANDHAREDDY(187Z1A0424),K.PREETHI(187Z1A0425),M.SIV AKUMARI(187Z1A0426),M.SRAVANI(187Z1A0427),P.MUNUSWAMY(187Z1A0429)in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Internal Guide

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Professor

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Scanned with ACE Scanner

On

OIL SPILL DETECTION ON SEA SURFACE BY USING SENTINAL-1 SAR IMAGE

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

P.JAVEED BASHA 187Z1A0430

P.RAJESWARI 187Z1A0431

P.KAVITHA 187Z1A0433

P.GIRISH 187Z1A0434

Under the esteemed Guidance of

SK.Wahid basha, M.Tech

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> RA INSTITUTE OF TECHNOLOGY & SCIENCES grimaduali, Markasur-523 316



This is to certify that the thesis entitled "OIL SPILL DETECTION ON SEA SURFACE BY USINGSENTIALISARIMAGES that submitted by P. JAVEEDBASHA (187Z1A0430), P.RAJESWARI (187Z1A0431), P.KAVITHA (187Z1A0433), P.GRISH (187Z1A0434), in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Professor

External Examiner

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NDIRA INSTITUTE MARKAPA, India Darimadugu, Markapa, India Darimadugu, Markapa, India Darimadugu, Markapa, India Darimadugu, Markapa, India

DRIVE STATE ANALYSIS USING AI TO AVOID ACCIDENTS

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

P.DEEPIKA 187Z1A0436 S.PAVITHRAMMA 187Z1A0438 S.PUSHPA LATHA 187Z1A0439

S.KARTHIK REDDY

Under the esteemed Guidance of

187Z1A0440

SK.Naseema, M.Tech Assoc. Professor



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RA INSTITUTE OF TECHNOLOGY & SCIENCES Darimadugu, Markar ... Prakasam Dist. (A.r.) ir dia.



This is to certify that the thesis entitled "DRIVE STATE ANALYSIS USING AI TO AVOID ACCIDENTSthatsubmittedbyP.DEEPIKA(187Z1A0436),S.PAVITHRAMMA(187Z1A0438),S.PUSHPA-LATHA(187Z1A0439),S.KARTHIK REDDY(187Z1A0440),in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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Sk.Naseema, M.Tech

Assoc. Professor

V.Chaitanya Reddy,Ph.D

Professor

NDIRA INSTITUTE OF TECHNOLOGY & SCIENCE Darimadugu, Markapur-523 3 Prakasam Dist.(A.P.) India.

On

SMART FARMING SYSTEM USING IOT FOR EFFECTIVE CROP GROWTH Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

T.SUMALATHA 187Z1A0441
T.RISITHA 187Z1A0442
V.PRASAD 187Z1A0443
Y.REDDAMMA 187Z1A0444

Under the esteemed Guidance of

SK.Beebi, M.Tech Assoc. Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE Approved by AICTE(Affiliated to J N T UNIVERSITY, KAKINADA, A.P, INDIA)

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320

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This is to certify that the thesis entitled "SMART FARMING SYSTEM USING IOT FOR EFFECTIVE CROPGROWTHthatsubmittedbyT.SUMALATHA(187Z1A0441),T.RISITHA(187Z1A0442),V.PRASAD(187Z1A0443),Y.REDDAMMA(187Z1A0444),in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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Internal Guide

Sk.Beebi, M.Tech

Assoc. Professor

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V.Chaitanya Reddy,Ph.D

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External Examiner

On

MODELLING E-WASTE MANAGEMENT DATA IN SMART CITIES

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

A.RENUKA 197Z1A0401 B.C.VIJAY KUMAR 197Z1A0402

B.RAJA SEKHAR 197Z1A0403

B.PUSHPALATHA 197Z1A0404

CH.MEENE 197Z1A0405

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INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320

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INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE

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This is to certify that the thesis entitled "MODELLING OF E-WASTE MANAGEMENT DATA IN SMARTCITIES that submitted by A.RENUKA (197Z1A0401), B.C. VIJAYKUMAR (197Z1A0402), B.RAJASE KHAR (197Z1A0403), B.PUSHPALATHA (197Z1A0404), CH.MEENE (197Z1A0405) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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Internal Guide

Sk.Beebi, M.Tech

Assoc. Professor

Head of the Department

DR.P.Jaya Rami reddy,Ph.D

Professor

External Examiner

On

HARD WARE ROOT OF TRUST FOR IOT SECURITY IN SMART HOME SYSYTEMS

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

CH.MAHENDRA 197Z1A0406

CH.THARUN KUMAR 197Z1A0407

G.PAVAN KUMAR 197Z1A0408

G.NAYAK 197Z1A0409

J.JYOTHI 197Z1A0410

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320

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INDIRA INSTITUTE OF TECHNOLOGY A

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320



CERTIFICATE

This is to certify that the thesis entitled "HARD WARE ROOT OF TRUST FOR IOT SECURITY IN SMART HOME SYSTEMS that's ubmitted by CH.MAHENDRA (197Z1A0406), CH.THARUN KUMAR (197Z1A0472), G.PAVANKUMAR (197Z1A0408), G.NAYAK (197Z1A0409), J.JYOTHI (197Z1A0410) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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Internal Guide

U.V.Siviah, M.Tech

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Professor

External Examiner

DIRA INSTITUTE OF TECHNOLOGY & SCIENCES Darimadugu, Markapur-523 310 Prakasam Dist.(A.P.) India.

On

MULTI FUNCTIONAL BLIND STICK FOR VISUALLY IMPAIRED PEOPLE

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

K.ROJA 197Z1A0411

K.MADAN MOHAN 197Z1A0412

K.CHANDRA SEKHAR 197Z1A0413

K.DAMODHAR 197Z1A0414

M.DHARMA RAMASWAMY 197Z1A0415

Under the esteemed Guidance of

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INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320 F 10 160 100 523 31



This is to certify that the thesis entitled "MULTI FUNCTIONAL BLIND STICK FOR VISUALLY IMPAIREDPEOPLEK.ROJA(197Z1A0411)KMADANMOHAN(197Z1A0412),KCHANDRA SEKHAR(197Z1A0413),K.DAMODHAR(197Z1A0414), M.DHARMA RAMA SWAMY (197Z1A0415) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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Internal Guide

Head of the Department

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Professor

PRINCYPAGY & SCIENCES STITUTE OF TECHNOLOGY & SCIENCES STITUTE OF TECHNOLOGY & SCIENCES adugu, Markapur-523 316 adugu, Markapur-523 316 adugu, Markapur-523 316

On

REAL TIME WIRELESS EMBEDDED ELECTRONICS FOR SOILDER SECURITY

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

M.SUKANYA 197Z1A0416

M.GOPI 197Z1A0417

M.JAYA KRISHNA 197Z1A0418

M.SUBRAMANYAM 197Z1A0419

M.MOUNIKA 197Z1A0420

Under the esteemed Guidance of

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Darimadugu (v), Markapur (m), Prakasam (Dt) - 523320 (1000) 252331



This is to certify that the thesis entitled "REAL IME WIRELESS EMBEDDED ELECTRONICS FOR SOILDERSECURITYM.SUKANYA(197Z1A0416),M.GOPI(197Z1A0417),M.JAYAKRISHNA(197Z1A0418),M.SUBRAMANYAM(197Z1A0419), M.MOUNIKA (197Z1A0420) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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Internal Guide

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External Examiner

PRINCIPAL
STITUTE OF TECHNOLOGY & SCIENCES

Prakasam Dist.(A.

On

SMART DOOR USING BIOMETRIC NFC BAND AND OTP BASED METHODS Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

M.HARI PRASAD 197Z1A0421

N.GANESH 197Z1A0422

N.ASHOK REDDY 197Z1A0423

N.DINIKAR 197Z1A0424

NARESH KUMAR 197Z1A0425

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2019-2023

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This is to certify that the thesis entitled "SMART DOOR USING BIOMETRIC NFC BAND AND OTP BASEDMETHODS.M.HARIPRASAD(197Z1A0421),N.GANESH(197Z1A0422),N.ASHOKREDDY(197Z 1A0423),N.DINIKAR(197Z1A0424), NARESH KUMAR (197Z1A0425) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRAINSTITUTE OF TECHNOLOGY AND SCIENCE MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision

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

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On

IOT BASED REAL-TIME REMOTE PATIENT MONITERING SYSTEM

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

P.VENKATESWARLU 197Z1A0426

P.KEERTHANA 197Z1A0427

P.SUNITHA 197Z1A0428

S.PRATHAP 197Z1A0429

S.PEDDA VENKATESH KATYA197Z1A0430

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IOT BASED WIRELESS SENSOR NETWORK FOR AIR POLLUTION MONITERING

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

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On

Water Level Indicator

Submitted in partial fulfillment of the requirement for the award of the degree of

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This is to certify that the thesis entitled "WATER LEVEL INDICATOR" that is being submittedbyB.JAHNAVI(177Z1A0405),B.NEELAKANTA(177Z1A0407),B.AKHILA(177Z1A04 09),G.S.VENKATESWARA RAO(177Z1A0415), K.NAVEEN(177Z1A0420) in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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PRINCIPAL

TITUTE OF TECHNOLOGY & SCIENCES

On

Smart Card Technology

Submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the thesis entitled "SMART CARD TECHNOLOGY" that is being submitted by K.PRAVEENA (177Z1A0421), N.SHIRISHA (177Z1A0423), S.GOVINDU (177Z1A0425), S.ANKI REDDY (177Z1A0426), in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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This is to certify that the thesis entitled "RAILWAY GATE CONTROL" that is being submitted by S. VENKATESWARI (177Z1A0429), V. BHARATHI (177Z1A0431), G. ANILKUMAR (177Z5A0401), K. NAGASESHULU (177Z5A0402), in the partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING in INDIRA INSTITUTE OF TECHNOLOGY AND SCIENCE, MARKAPUR-523316 (Affiliated to Jawaharlal Nehru Technological University, KAKINADA) is a record of bonafide work carried out by them under our guidance and supervision.

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