


ANNA UNIVERSITY :: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED PROTECTION SYSTEM TO OVER COME VOLTAGE FLUCTUATIONS" is the Bonafide work of "AAKASH M (E18EER001) AKASH P (E18EER002), AKASH RAJ A (E18EER003), AAKASH D (E18EEL317)" who carried out the project work under my supervision.



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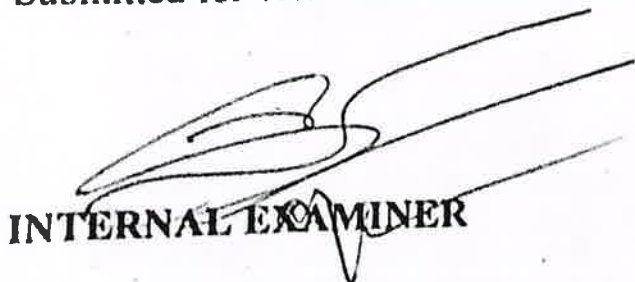
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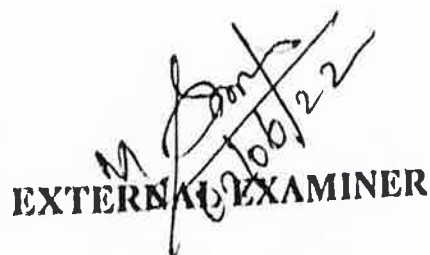
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Submitted for viva-voce examination held on 02-06-2022.....



INTERNAL EXAMINER



EXTERNAL EXAMINER

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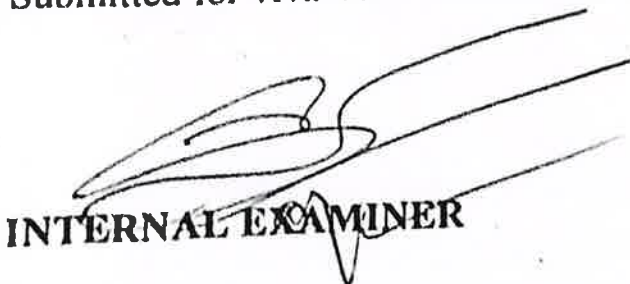
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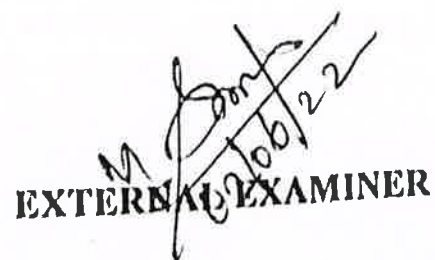
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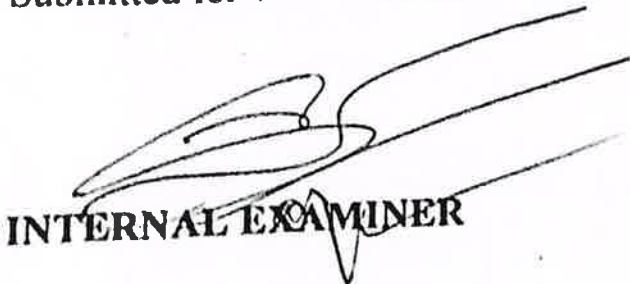
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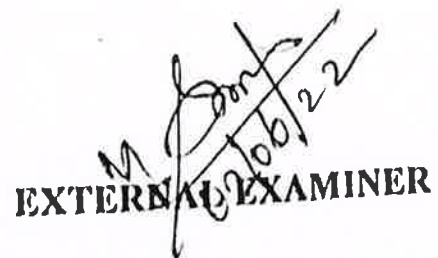
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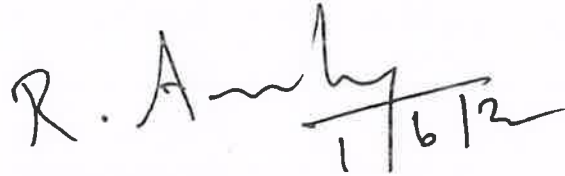
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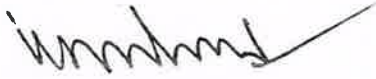


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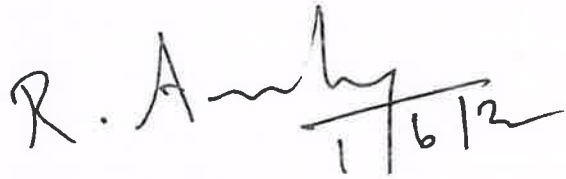
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Certified that this project report titled. "E WASTE 3D PRINTER" is the Bonafide work of **DEEPAK.T (Reg.No. E18EER008)** DHARIK AHAMED.S (Reg.No.E18EER009). DHEEPAK RAM.R (Reg. No. E18EER010) and ANANTHKUMAR.S (Reg. No. E18EEL303) who carried out the project work under my supervision.

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EXTERNAL EXAMINER

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Certified that this project report titled, "INVESTIGATIONS AND MODELLING OF RENEWABLE POWERED ELECTRONIC JAMMER FOR POINT CALIMERE BIRD LIFE SANCTUARY IN NAGAPATTINAM DISTRICT" is the Bonafide work of **IMRANNAZIR.N** (Reg.No.E18EER011), **JAGATHEESH.R** (Reg.No. E18EER013), **KALAIYARASAN.A** (Reg. No. E18EER014) and **ASHIQ FARHAD.M** (Reg. No. E18EEL305) who carried out the project work under my supervision.


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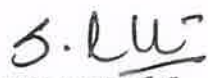
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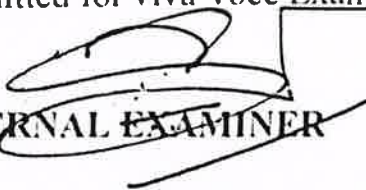
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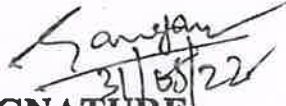
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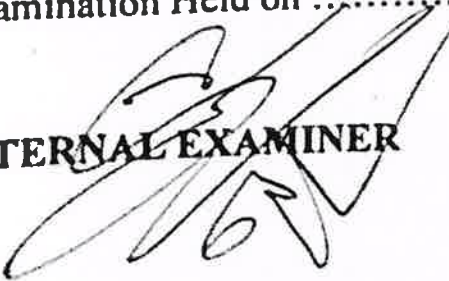
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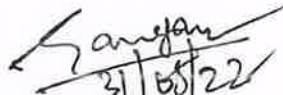
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DECLARATION

I affirm that the project work titled "A FIXED FREQUENCY ZERO VOLTAGE SWITCHING ON-BOARD EV CHARGER" being submitted in partial fulfillment for the award of BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONICS ENGINEERING is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University

KEVIN CHRISTOPHER A (E18EER018)



KIRUPAKARAN M (E18EER019)



KUMARAVEL M (E18EER021)




GOPIKRISHNAN P (E18EEL307)



I certify that the declaration made above by the candidate is true

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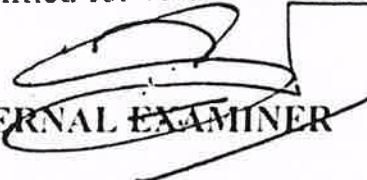
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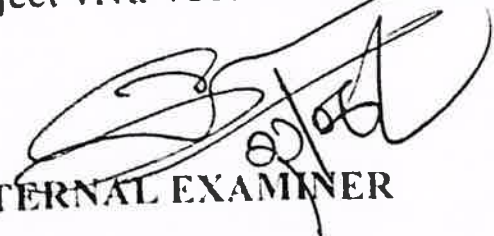
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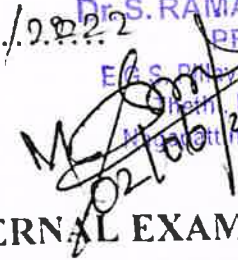
Certified that this project report titled, "DESIGN A GRID CONNECTED SOLAR MULTI LEVEL INVERTER" is the bonafide work of **MADHESH B (Reg.No.E18EER022)** **MANIKANDAN G (Reg.No.E18EER023),** **MURUGESHKANNAN C (Reg.No.E18EER024),** and **HARIPRASAD V (Reg.No.E18EEL308)** who carried out the project work under my supervision.


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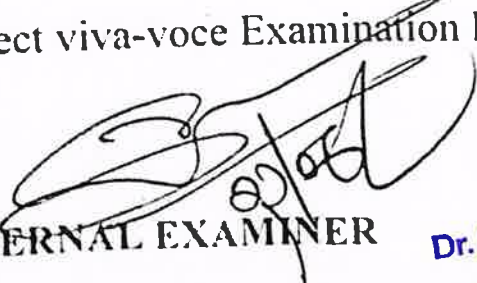
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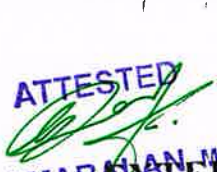
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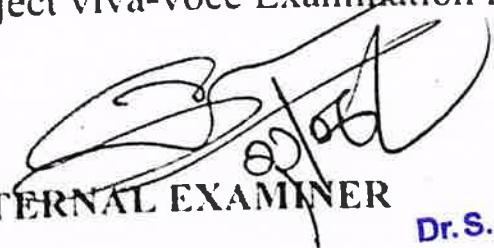
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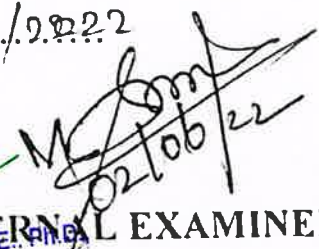
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Certified that this project report "BLUETOOTH BASED ELECTRIC CAR" is the Bonafide work of **G.MUTHUDINESH (E18EER025), P.PREM (E18EER026), R.PUYALARASAN (E18EER027), K.KARAN (E18EEL309)** who carried out the Project Work under my supervision.



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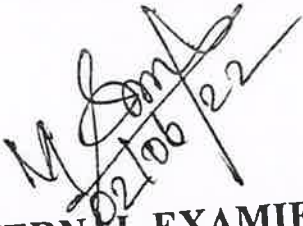
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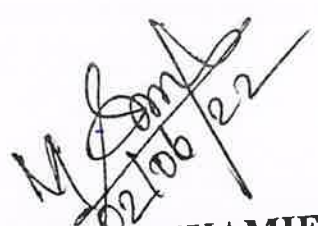
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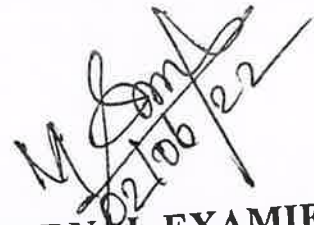
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EXTERNAL EXAMIER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this project "DESIGN AND FABRICATION OF LINEAR INDUCTION MOTOR" Is the bonafide work of **REEHAN.B (Reg. No. E18EER028)** SADEESH KUMAR.P (Reg. No. E18EER029) and SHIRAZUDEEN.H (Reg. No. E18EER032) KARTHIKEYAN.R (Reg. No. E18EEL310), who carried out the work under my supervisor. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature of the Head of the Department

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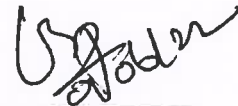
BONAFIDE CERTIFICATE

Certified that this project report titled, "IOT BASED AUTOMATIC RAILWAY TRACK CRACK DETECTION SYSTEM" is the bonafide work of **S.TAMILSELVAN (Reg. No. E18EER036)**, **S.VENKATESWARAN (Reg. No. E18EER037)**, **P.VIGNESH (Reg. No. E18EER038)** and **K.MANIVANNAN (Reg. No. E18EEL312)** who carried out the project work under my supervision.



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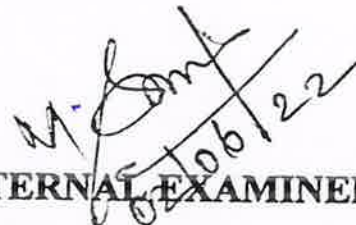
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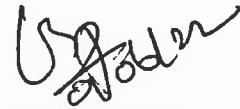
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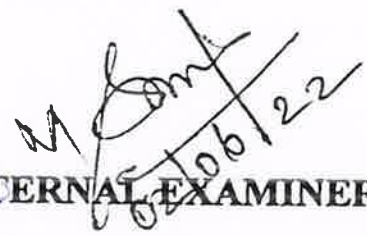
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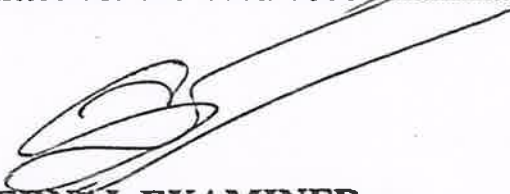
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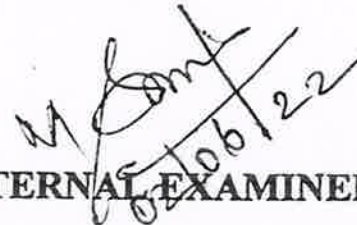
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BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED AUTOMATIC VEHICLE ACCIDENT DETECTION AND RESCUE SYSYTEM "is the Bonafide work of **VIGNESH R (E18EER039), VISHNU R (E18EER041), MANOJ M (E18EEL313), MOHAMMED ABBAS C (E18EEL314)**" who carried out the project work under my supervision.



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BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED PROTECTION SYSTEM TO OVER COME VOLTAGE FLUCTUATIONS" is the Bonafide work of "AAKASH M (E18EER001), AKASH P (E18EER002), AKASH RAJ A (E18EER003), **AAKASH D (E18EEL317)**" who carried out the project work under my supervision.



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Certified that this project report " **SOLDIERS TRACKING AND HEALTH MONITORING SYSTEM USING GPS AND IOT** " is the bonafide work of " **ARUNKUMAR R (E18EER005) , BALAGANESH S (E18EER006) , CHOZHAN M (E18EER007) . AJAY M (E18EEL302)** " who carried out the project work under my supervision.



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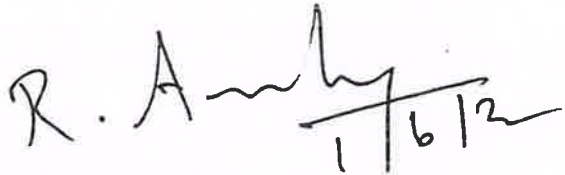
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BONAFIDE CERTIFICATE

Certified that this project report titled, "E WASTE 3D PRINTER" is the Bonafide work of DEEPAK.T (Reg.No. E18EER008), DHARIK AHAMED.S (Reg.No.E18EER009), DHEEPAK RAM.R (Reg. No. E18EER010) and ANANTHKUMAR.S (Reg. No. E18EEL303) who carried out the project work under my supervision.



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Nagapattinam-611 002

Project viva voce examination held on 02-06-2022

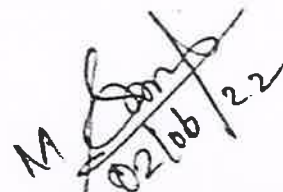


INTERNAL EXAMINER

ATTESTED

EXTERNAL EXAMINER

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



BONAFIDE CERTIFICATE

Certified that this project report titled, "INVESTIGATIONS AND MODELLING OF RENEWABLE POWERED ELECTRONIC JAMMER FOR POINT CALIMERE BIRD LIFE SANCTUARY IN NAGAPATTINAM DISTRICT" is the Bonafide work of IMRANNAZIR.N (Reg.No.E18EER011), JAGATHEESH.R (Reg.No. E18EER013), KALAIYARASAN.A (Reg. No. E18EER014) and **ASHIQ FARHAD.M** (Reg. No. E18EEL305) who carried out the project work under my supervision.



SIGNATURE

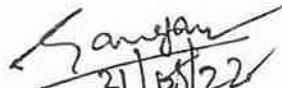
Dr. V.MOHAN, M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Dept. of Electrical and Electronics
Engineering

E.G.S. Pillay Engineering College
Nagapattinam-611 002



SIGNATURE

**Dr.G.GANESAN@SUBRAMANIAN.,
M.E., MIE., Ph.D.,**

SUPERVISOR

Associate Professor

Dept. of Electrical and Electronics
Engineering

E.G.S. Pillay Engineering College
Nagapattinam-611 002

Examination Held on ... 02 . 06 . 2022

INTERNAL EXAMINER

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.**

EXTERNAL EXAMINER



DECLARATION

I affirm that the project work titled "A FIXED FREQUENCY ZERO VOLTAGE SWITCHING ON-BOARD EV CHARGER" being submitted in partial fulfillment for the award of BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONICS ENGINEERING is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University

KEVIN CHRISTOPHER A (E18EER018)



KIRUPAKARAN M (E18EER019)



KUMARAVEL M (E18EER021)



GOPIKRISHNAN P (E18EEL307)



I certify that the declaration made above by the candidate is true

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.


Dr. V. MOHAN M.E., Ph.D.,

SUPERVISOR

Professor, Dept. of Electrical and Electronics Engineering

ANNA UNIVERSITY :: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report titled, "DESIGN A GRID CONNECTED SOLAR MULTI LEVEL INVERTER" is the bonafide work of **MADHESH B** (Reg.No.E18EER022), **MANIKANDAN G** (Reg.No.E18EER023), **MURUGESHKANNAN C** (Reg.No.E18EER024), and **HARIPRASAD V** (Reg.No.E18EEL308) who carried out the project work under my supervision.



SIGNATURE

Dr.V.MOHAN M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Professor

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Nagapattinam-611 002



SIGNATURE

Mr.K.NANDAKUMAR M.E., (Ph.D).,

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Assistant Professor

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Nagapattinam-611 002

Project viva-voce Examination Held on 02/06/2022



INTERNAL EXAMINER

ATTESTED



Dr. S. RAMABALAN
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Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

BONAFIDE CERTIFICATE

Certified that this project report "BLUETOOTH BASED ELECTRIC CAR" is the Bonafide work of G.MUTHUDINESH (E18EER025), P.PREM (E18EER026), R.PUYALARASAN (E18EER027), **K.KARAN (E18EEL309)** who carried out the Project Work under my supervision.



SIGNATURE

Dr. V. MOHAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Professor
Dept. of Electrical and Electronics
Engineering
E.G.S. Pillay Engineering College
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SIGNATURE


Prof. S. SIVAMANI, M.E.,
SUPERVISOR
Assistant Professor
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02/06/2022



INTERNAL EXAMIER

ATTESTED



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Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



EXTERNAL EXAMIER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this project "DESIGN AND FABRICATION OF LINEAR INDUCTION MOTOR" Is the bonafide work of REEHAN.B (Reg. No. E18EER028), SADEESH KUMAR.P (Reg. No. E18EER029) and SHIRAZUDEEN.H (Reg. No. E18EER032) **KARTHIKEYAN.R (Reg. No. E18EEL310)**, who carried out the work under my supervisor. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature of the Head of the Department

Dr.V.MOHAN, M.E., Ph.D.,

PROFESSOR & HEAD

Dept. of Electrical and Electronics Engineering,

E.G.S. Pillay Engineering College,

(Autonomous) Nagapattinam -611 002



Signature of the Supervisor

Dr.V.MOHAN, M.E., Ph.D.,

PROFESSOR & HEAD

Dept. of Electrical and Electronics Engineering,

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(Autonomous) Nagapattinam -611 002

Submitted for the Project viva voice examination held on 02/06/2022



INTERNAL EXAMINER

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600025

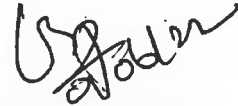
BONAFIDE CERTIFICATE

Certified that this project report titled, "IOT BASED AUTOMATIC RAILWAY TRACK CRACK DETECTION SYSTEM" is the bonafide work of S.TAMILSELVAN (Reg. No. E18EER036), S.VENKATESWARAN (Reg. No. E18EER037), P.VIGNESH (Reg. No. E18EER038) and **K.MANIVANNAN (Reg. No. E18EEL312)** who carried out the project work under my supervision.



SIGNATURE

Dr.V. MOHAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
PROFESSOR
Dept .of Electrical and Electronics
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E.G.S.Pillay Engineering college
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SIGNATURE

Dr. T. SURESH PADMANABHAN M.E., Ph.D.,
SUPERVISOR
PROFESSOR
Dept .of Electrical and Electronics
Engineering
E.G.S.Pillay Engineering college
(Autonomous)
Nagapattinam-611 002

Submitted for the Viva voce Examination held on 02.06.2022

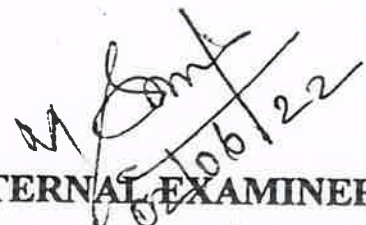


INTERNAL EXAMINER

ATTESTED

Dr. S. RAMABAHAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

EXTERNAL EXAMINER



ANNA UNIVERSITY :: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED AUTOMATIC VEHICLE ACCIDENT DETECTION AND RESCUE SYSSTEM "is the Bonafide work of "VIGNESH R (E18EER039), VISHNU R (E18EER041), **MANOJ M (E18EEL313)**, MOHAMMED ABBAS C (E18EEL314)" who carried out the project work under my supervision.



SIGNATURE

Dr.V.MOHAN, M.E., Ph.D.,
HEAD OF THE DEPARTMENT
PROFESSOR
Dept.of Electrical and Electronics
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Nagapattinam - 611 002



SIGNATURE

Mr.R.ANANDARAJ, M.E., (Ph.D),,
SUPERVISOR
ASSOCIATE PROFESSOR
Dept. of Electrical and Electronics
Engineering
E.G.S. Pillay Engineering College
Nagapattinam - 611 002

Submitted for viva-voce Examination held on ..02/06/2022

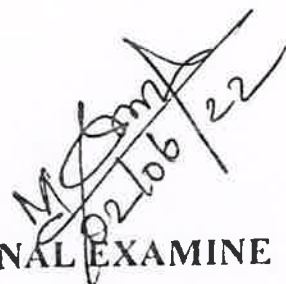


INTERNAL EXAMINER

ATTESTED

Dr.S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thal, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu

EXTERNAL EXAMINE



ANNA UNIVERSITY :: CHENNAI 600 025


BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED AUTOMATIC VEHICLE ACCIDENT DETECTION AND RESCUE SYSYTEM "is the Bonafide work of "VIGNESH R (E18EER039), VISHNU R (E18EER041), MANOJ M (E18EEL313), **MOHAMMED ABBAS C (E18EEL314)**" who carried out the project work under my supervision.



SIGNATURE


Dr.V.MOHAN, M.E., Ph.D.,
HEAD OF THE DEPARTMENT
PROFESSOR
Dept.of Electrical and Electronics
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E.G.S. Pillay Engineering College
Nagapattinam - 611 002



SIGNATURE

Mr.R.ANANDARAJ, M.E., (Ph.D).,
SUPERVISOR
ASSOCIATE PROFESSOR
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E.G.S. Pillay Engineering College
Nagapattinam - 611 002

Submitted for viva-voce Examination held on ...02/06/2022

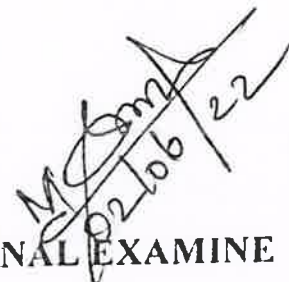


INTERNAL EXAMINER

ATTESTED

Dr.S.RAMABALAN, M.E., Ph.D.
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu

EXTERNAL EXAMINE



ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC RAILWAY GATE CONTROLLING AND SIGNALLING SYSTEM" is the bonafide work of AMIRTHAVARSHINI P (E18EER004) , ISHWARYA P (E18EER012), KIRUTHIGA S (E18EER020), **TAMIL POONGHUZHALLY I (E18EEL317)** who carried out the project work under my supervision.



SIGNATURE

**Dr.V.MOHAN, M.E.,,Ph.D.,
HEAD OF THE DEPARTMENT
PROFESSOR**

Electrical and Electronics Engineering
E.G.S Pillay Engineering College
(Autonomous)
Nagapattinam - 611 002

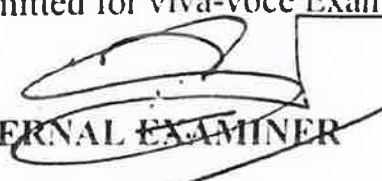


SIGNATURE

**Mrs.S.LATHA, M.E.,(Ph.D.)
SUPERVISOR**

ASSISTANT PROFESSOR
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(Autonomous)
Nagapattinam - 611 002

Submitted for viva-voce Examination held on ...02-06-2022.....



INTERNAL EXAMINER

ATTESTED



EXTERNAL EXAMINER

**Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.**

BONAFIDE CERTIFICATE

Certified that this mini project report titled, "POWER GENERATION USING SPEED BREAKER" is the bonafide work of **ABILASH.S (Reg. No. E19EER002)** KAMAL RAJ.K (Reg. No. E19EER018), KARTHIKESAN.P (Reg. No. E19EER020) and KAVINESH.R (Reg. No. E19EER021) who carried out the project work under my supervision.



SIGNATURE

Dr. V. MOHAN., M.E., Ph.D.,
HEAD OF THE DEPARTMENT

Professor,

Dept. of Electrical and Electronics
Engineering,

E G S Pillay Engineering College,
(Autonomous),

Nagapattinam – 611 002.



SIGNATURE

Dr. T. SURESH PADMANABAN.,
M.E., Ph.D.,
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Professor

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Nagapattinam – 611 002.

Exam Conducted on 23/12/2021



[Internal Examiner]

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

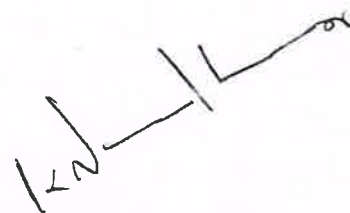
BONAFIDE CERTIFICATE

Certified that this project report titled, "TOUCHLESS DOORBELL" is the bonafide work of, NIVASH PRASATH.V.R (Reg No E19EER035), AMOS.R (Reg No E19EER004), KESAVAN.R (Reg No E19EER023) and MATHAN KUMAR.K (Reg. No E19EER028) who carried out the project work under my supervision.



SIGNATURE

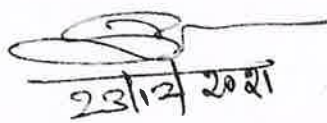
Dr. V. MOHAN ,M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Professor
Dept of Electrical and Electronics
Engineering
E. G. S. Pillay Engineering College
Nagapattinam-611 002



SIGNATURE

Mr.K.NANDA KUMAR ,M.E., (Ph.D).
SUPERVISOR
Assistant Professor
Dept of Electrical and Electronics
Engineering
E. G. S. Pillay Engineering College
Nagapattinam-611 002

Internal Evaluation Exam Conducted



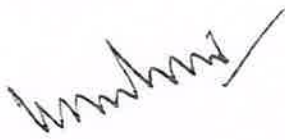
ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

BONAFIDE CERTIFICATE

Certificate that the project work entitled "third eye for blind" carried out by **M.ARAVINTH** (E19EER006) **S.DINESH** (E19EER010), **A.JOHN MILTON** (E19EER016), **S.MANIKANDAN** (E19EERO25) are bonafide students of **E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMUS) , NAGAPATTINAM** , in partial fulfillment for the award of Bachelor of Engineering in Electrical & Electronics Engineering during the year 2021-2022.



Signature of the HOD



Signature of the Guide

Dr.V.MOHAN M.E.,Ph.D.,

Professor & HOD

Dept. of Electrical and Electronics
Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

Mr. R. ANANDARAJ M.E., (Ph.D)..

Associate Professor

Dept. of Electrical and Electronics
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E.G.S. Pillay Engineering College


Nagapattinam-611 002

Internal Evaluation Exam Conducted on

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.


28/10/2021.

BONAFIDE CERTIFICATE

Certified that this project report titled, "PORTABLE MINI INVERTER" is the bonafide work of **DIVINRAJ.K (Reg.No.E19EEER008)** **DINESHKUMAR.R (Reg.No.E19EEER009)**, **DURAIMURUGAN.M (Reg.No.E19EEER012)**, and **MUKILAN.P (Reg.No.E17EEER036)** who carried out the project work under my supervision.



SIGNATURE

Dr.V.MOHAN M.E., Ph.D.,

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Professor

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Nagapattinam-611 002



SIGNATURE

Dr. G. GANESAN M.E., MIE., Ph.D.,

GUIDE

Associate Professor

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Nagapattinam-611 002

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.,

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Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

BONAFIDE CERTIFICATE

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SIGNATURE

Dr.V.MOHAN M.E., Ph.D.,

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Professor

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Nagapattinam-611 002

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
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