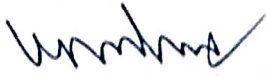


ANNA UNIVERSITY :: CHENNAI 600 025

**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.



SIGNATURE



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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Dr.T.SURESH PADMANABHAN, M.E., Ph.D.,  
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Nagapattinum – 611 002

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



INTERNAL EXAMINER



EXTERNAL EXAMINER

ANNA UNIVERSITY:: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

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.



**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

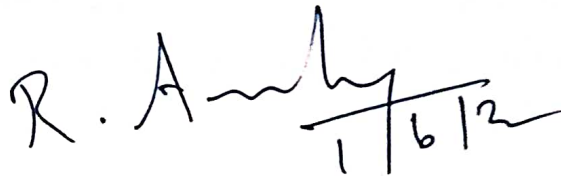
Professor

Electrical and Electronics Engineering

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( Autonomous ),

Nagapattinam - 611 002.



**SIGNATURE**

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

**SUPERVISOR**

Associate Professor

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( Autonomous ),

Nagapattinam - 611 002.

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



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

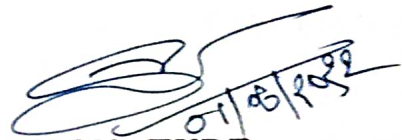
**ANNA UNIVERSITY: CHENNAI 600 025**

**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.



**SIGNATURE**

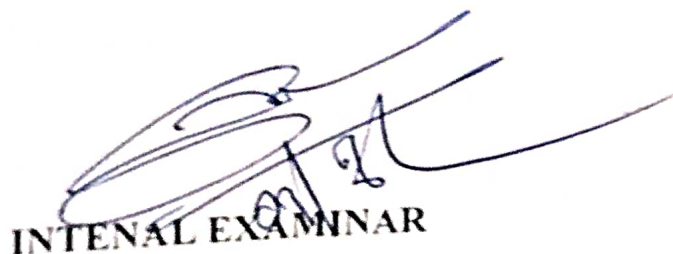


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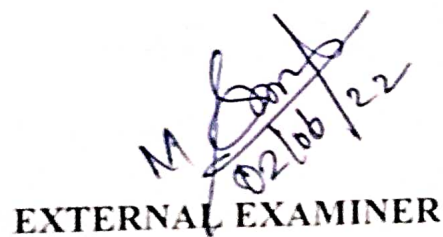
**Dr. V.MOHAN M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
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Nagapattinam-611 002

**Mr. P.J.SURESH BABU M.E.,(Ph.D).,**  
**SUPERVISOR**  
Assistant Professor  
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E.G.S. Pillay Engineering College  
(Autonomous)  
Nagapattinam-611 002

Project viva voce examination held on 02-06-2022



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**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

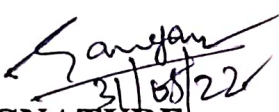
Dr. V.MOHAN, M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Dept. of Electrical and Electronics  
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E.G.S. Pillay Engineering College  
Nagapattinam-611 002

  
SIGNATURE

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

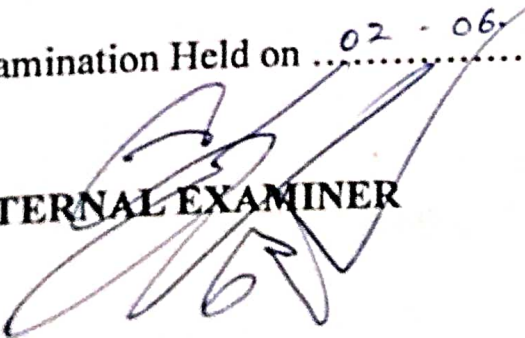
SUPERVISOR

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

  
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

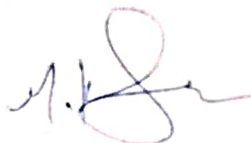
KEVIN CHRISTOPHER A (E18EER018)



KIRUPAKARAN M (E18EER019)



KUMARAVEL M (E18EER021)



GOPIKRISHNAN P (E18EEL307)



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



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.,**

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Professor

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E. G.S Pillay Engineering College

(Autonomous)

Nagapattinam-611 002



**SIGNATURE**

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

**SUPERVISOR**

Assistant Professor

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Engineering

E.G.S Pillay Engineering College

(Autonomous)

Nagapattinam-611 002

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



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## 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

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E.G.S. Pillay Engineering College

Nagapattinam-611 002



**SIGNATURE**

**Prof. S.SIVAMANI, M.E.,**

**SUPERVISOR**

Assistant Professor

Dept. of Electrical and Electronics

Engineering

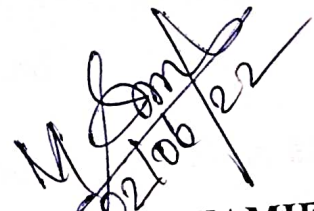
E.G.S. Pillay Engineering College

Nagapattinam-611 002

02/06/2022



**INTERNAL EXAMIER**

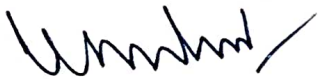


**EXTERNAL EXAMIER**

# 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



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  
Engineering  
E.G.S.Pillay Engineering college  
(Autonomous)  
Nagapattinam-611 002



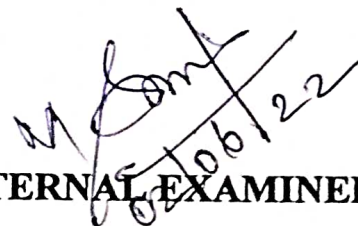
SIGNATURE

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



EXTERNAL EXAMINER

ANNA UNIVERSITY :: CHENNAI 600 025

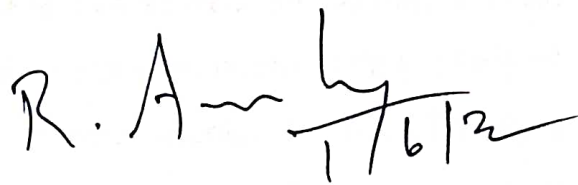
**BONAFIDE CERTIFICATE**

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



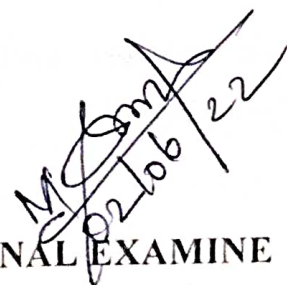
**SIGNATURE**

**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



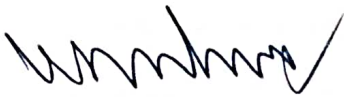
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**EXTERNAL EXAMINE**

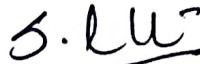
BONAFIDE CERTIFICATE

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

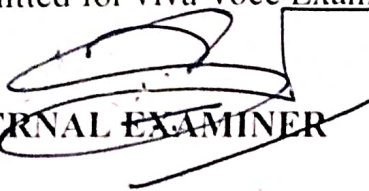
Dr.V.MOHAN, M.E.,,Ph.D.,  
HEAD OF THE DEPARTMENT  
PROFESSOR  
Electrical and Electronics Engineering  
E.G.S Pillay Engineering College  
(Autonomous)  
Nagapattinam - 611 002



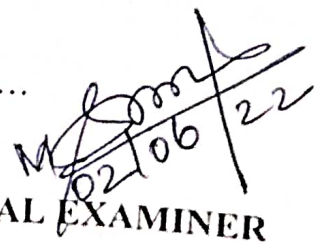
SIGNATURE

Mrs.S.LATHA, M.E.,(Ph.D.)  
SUPERVISOR  
ASSISTANT PROFESSOR  
Electrical and Electronics Engineering  
E.G.S Pillay Engineering College  
(Autonomous)  
Nagapattinam - 611 002

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



INTERNAL EXAMINER



EXTERNAL EXAMINER

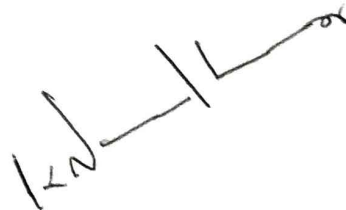
## BONAFIDE CERTIFICATE

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

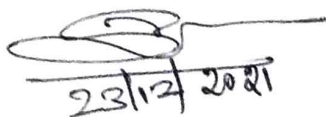
Dr. V.MOHAN ,M.E., Ph.D.,  
HEAD OF THE DEPARTMENT  
Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002



SIGNATURE

Mr.K.NANDA KUMAR ,M.E., (Ph.D.),  
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Assistant Professor  
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E.G.S. Pillay Engineering College  
Nagapattinam-611 002

Internal Evaluation Exam Conducted on 23/12/2021



23/12/2021

## BONAFIDE CERTIFICATE

Certified that this mini project report titled, **“WIRELESS POWER TRANSMISSION”** is the bonafide work of **E.RIFATHAHAMED** (Reg. No. E19EER040), **A.SALMANHARISH**(Reg. No. E19EER042), **R.SAJITHRAM** (Reg. No. E19EEL311) and **R.SATHISHKUMAR** (Reg. No. E19EEL312) 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 Colleg  
Nagapattinam-611 002




**SIGNATURE**

**Mr.P.J.SURESH BABU M.E., [Ph.D.,]**  
**SUPERVISOR**  
Assistant-Professor  
Dept. of Electrical and Electronics  
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E.G.S. Pillay Engineering College  
Nagapattinam-611 002

*Exam Conducted on 23/12/2019.*



*23/12/19*



*[Internal Examiner] ii*



## BONAFIDE CERTIFICATE

Certified that this project report titled, “CELL PHONE DETECTOR” is the bonafide work of **M ASHOKKUMAR** (Reg. No. E19EEL302), **A BALAJE** (Reg. No. E19EEL303), **D KEERTHIVASAN** (Reg. No. E19EEL305) and **S VIGNESH** (Reg. No. E19EER054) 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. B. Amalore Naveen Antony, M.E., (Ph.D.)**

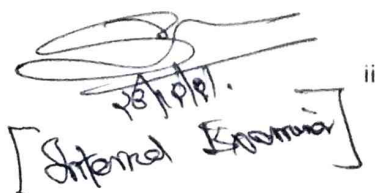
**SUPERVISOR**

Assistant Professor

Dept. of Electrical and Electronics  
Engineering

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

Exam Conducted on 28/12/21.



[Internal Examiner] ii

## BONAFIDE CERTIFICATE

Certified that this project report titled, "AUTOMATIC EXHAUST FAN OPERATING CIRCUIT USING SMOKE SENSOR" is the bonafide work of **M.ABIKUMAR** (Reg. No. E19EEL306), **D.DINESH** (Reg. No. E19EEL304), **K.RAJESH KUMAR** (Reg. No. E19EEL309) and **S.SABARI** (Reg. No.E19EEL310) 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. M.VIJAYAKUMAR, M.E.,Ph.D.,**

**SUPERVISOR**

Associate Professor

Dept. of Electrical and Electronics  
Engineering

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

2  
Exam Conducted on 28/12/20.



23/12/21



## BONAFIDE CERTIFICATE

Certified that this mini project report titled , "AUTOMATIC LIGHT AND DARK SENSOR" is the bonafide work of S. RISHIKESHI E19EEER041, PRABHAVANAN E19EEER044, MAURENDRAPRASAD E19EEER050 and Y.VASEEM AKRAM E19EEER053 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., M.E., MIE., Ph.D.,

GUIDE

Associate Professor,

Dept. of Electrical and Electronics

Engineering,

E.G.S. Pillay Engineering College,

Nagapattinam- 611002.

Examiner's Signature on 28/12/21.



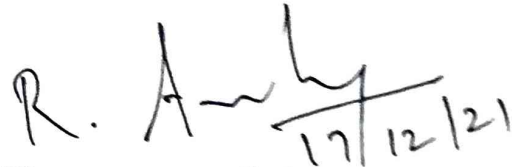
[Examiner's Signature]

# BONAFIDE CERTIFICATE

Certificate that the project work entitled "ALCOHOL DETECTION USING ARDUINO" carried out by S.SIVASANKAR (E19EER046), R.SOMNATH (E19EER047), J.SRIRAM(E19EER048), K.VIJAY (E19EERO55) and G.VIJAYAKUMAR (E19EERO56) 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  
Engineering

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

*Verification Confirmed on 28/12/21*



ii

*28/12/21*

## BONAFIDE CERTIFICATE

Certified that this project report titled, “PORTABLE MINI INVERTER” is the bonafide work of **DIVINRAJ.K** (Reg.No.E19EER008), **DINESHKUMAR.R** (Reg.No.E19EER009), **DURAIMURUGAN.M** (Reg.No.E19EER012), and **MUKILAN.P** (Reg.No.E17EER036) 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 M.E., MIE., Ph.D.,**

**GUIDE**

Associate Professor

Dept. of Electrical and Electronics

Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

## 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.,**  
**SUPERVISOR**

Professor

Dept. of Electrical and Electronics  
Engineering,

E G S Pillay Engineering College,  
(Autonomous),

Nagapattinam – 611 002.

Exam Conducted on 23/12/2021

[Internal Examiner]

# 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  
Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

Internal Evaluation Exam Conducted on 23/12/2021.



23/12/2021.

## BONAFIDE CERTIFICATE

Certified that this project report titled, "IoT BASED HOME AUTOMATION SYSTEM" is the bonafide work of GOVINDARAJULU M (Reg. No. E19EER013), KABILAN V (Reg. No. E19EER017), KULOTHUGAN S (Reg. No. E19EER024) and MANOJKUMAR S (Reg. No. E19EER027) 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.S.SIVAMANI M.E.,**

**SUPERVISOR**

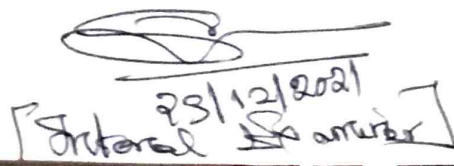
Assistant Professor

Dept. of Electrical and Electronics  
Engineering

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

ii

Examination completed on 23/12/2021.



23/12/2021  
[Director's Signature]

## BONAFIDE CERTIFICATE

Certified that this project report titled, "DISABLED CLAP SWITCH" is the bonafide work of MUHAMMED BAGURUDEEN.H (Reg. No. E19EER030), MOHAMED ABUL FAYASUDEEN.M (Reg. No. E19EER029), NAVEETH AHAMED.T (Reg. No. E19EER034) and NAGARAJAN.S (Reg. No. E19EER033) 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. V. MOHAN, M.E., Ph.D.,

SUPERVISOR

Professor

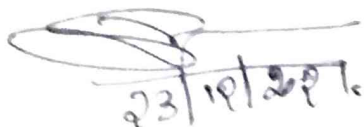
Dept. of Electrical and Electronics  
Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

Internal Exam Conducted on 23/11/2021.

(2)



## BONAFIDE CERTIFICATE

Certified that this project report titled, "AUTOMATIC RAIN SENSING" is the BONAFIDE work of MUTHU KRISHNAN. R (Reg. No. E19EER032), KARTHIK. S (Reg. No. E19EER019), DOMINIC ROSARIO.S (Reg. No. E19EER019) and JEGAJEEVI.H (Reg. No. E19EER016) who carried out the project WORK my supervision.



SIGNATURE

Dr. V. MOHAN ME., Ph. D.,

HEAD OF THE DEPARTMENT

Professor

Dept. of Electrical and Electronics

Engineering

E.G.S Pillay Engineering College

Nagapattinam-611 002



SIGNATURE

Dr. T. SURESH PADMANABAN ME., Ph.D.,

SUPERVISOR

Professor

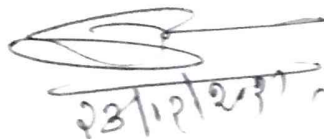
Dept. of Electrical and Electronics

Engineering

E.G.S Pillay Engineering College

Nagapattinam-611 002

External Evaluation Exam Conducted on 23/12/2021



[External Examiner]



## BONAFIDE CERTIFICATE

Certified that this project report "COVID 19 ELECTRONIC SHIELD MASK USING ESP8266" is the Bonafide work of "JEROMIYA S (E17EER024), KURALARASAN S (E17EER027), MOHANRAJ S (E17EER030), KEERTHIVASAN S (E17EEL304)" 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, Engineering,  
E.G.S .Pillay Engineering College,  
Nagapattinam-611 002

**SIGNATURE**

**Dr.T.SURESH PHADMANABAN  
M.E., Ph.D**

**SUPERVISOR**

**PROFESSOR**

Dept. of Electrical and Electronics  
Engineering, Engineering,  
E.G.S. Pillay Engineering college,  
Nagapattinam-611 002

Submitted for the project viva voice examination held on \_\_\_\_\_

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this mini-project report titled "ANTI SLEEP ALARM FOR DRIVERS" is the bonafide work of AHAMED.A (E19EEL301), MOHAMED DHILSATH HUSSAIN.S (E19EEL307), NITHEESH.S (E19EEL308) and SRIRAM.V (E19EEL313) 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. V.MOHAN M.E., Ph.D.,

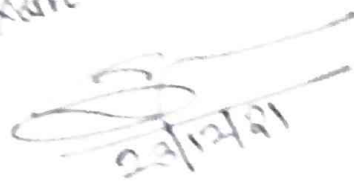
SUPERVISOR

Professor

Dept. of Electrical and Electronics  
Engineering

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

Internal Exam Conducted on 23/12/21



[Internal Examiner]

## BONAFIDE CERTIFICATE

Certified that this project report titled, “IoT BASED WIFI JAMMER” is bonafide work of **AARTHI S**(Reg.No.E19EER001),**JANANE K S**(Reg. No.E19EER015),**KEERTHANA M**(Reg.No.E19EER022) and **SHARMILA** (Reg.No.E19EER045),**UMAMAHESWARI M** (Reg.No. E19EER051) who tried 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

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

Assistant Professor  
Dept. of Electrical and Electronics  
Engineering

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

செயல்படுத்தப்பட்ட நாள் 28/12/21.

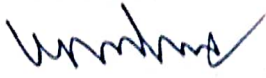


23/12/2021

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.



SIGNATURE



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)  
Nagapattinum – 611 002

Dr.T.SURESH PADMANABHAN, M.E., Ph.D.,  
PROFESSOR

Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering college (Autonomous)  
Nagapattinum – 611 002

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



INTERNAL EXAMINER



EXTERNAL EXAMINER

ANNA UNIVERSITY:: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

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.



**SIGNATURE**

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

**HEAD OF THE DEPARTMENT**

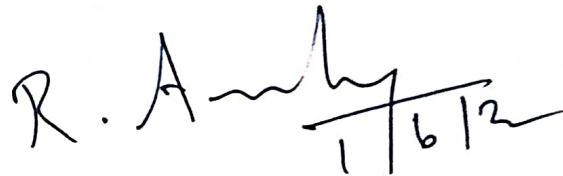
Professor

Electrical and Electronics Engineering

E.G.S.Pillay Engineering College

( Autonomous ),

Nagapattinam - 611 002.



**SIGNATURE**

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

**SUPERVISOR**

Associate Professor

Electrical and Electronics Engineering

E.G.S.Pillay Engineering College

( Autonomous ),

Nagapattinam - 611 002.

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



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ANNA UNIVERSITY: CHENNAI 600 025**

**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.



**SIGNATURE**

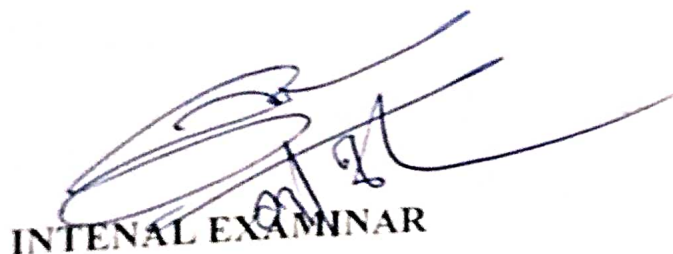


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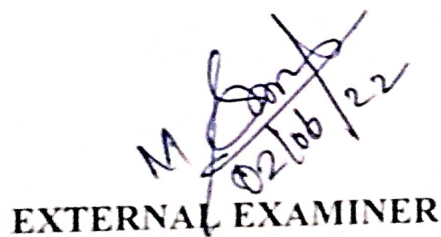
**Dr. V.MOHAN M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
(Autonomous)  
Nagapattinam-611 002

**Mr. P.J.SURESH BABU M.E.,(Ph.D).,**  
**SUPERVISOR**  
Assistant Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
(Autonomous)  
Nagapattinam-611 002

Project viva voce examination held on 02-06-2022



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**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

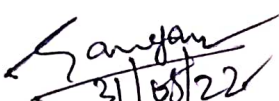
Dr. V.MOHAN, M.E., Ph.D.,

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.,

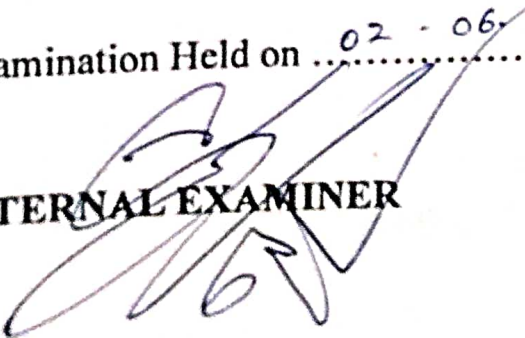
SUPERVISOR

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

  
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

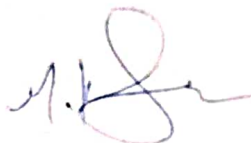
KEVIN CHRISTOPHER A (E18EER018)



KIRUPAKARAN M (E18EER019)



KUMARAVEL M (E18EER021)



GOPIKRISHNAN P (E18EEL307)



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



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

SUPERVISOR


Professor, Dept. of Electrical and Electronics Engineering




ANNA UNIVERSITY :: CHENNAI 600 025

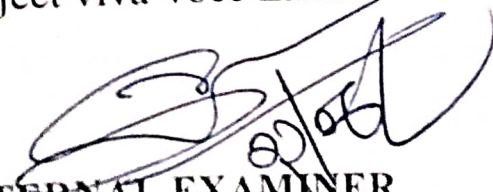
**BONAFIDE CERTIFICATE**

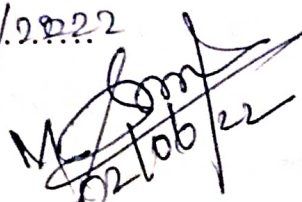
Certified that this project report titled, "DESIGN A GRID CONNECTED SOLAR MULTI LEVEL INVERTER" is the bonafide work of **MADHESH B** (Reg.No.E18EER022), **MANIKANDAN G** (Reg.No.E18EER023), **MURUGESHKANNAN C** (Reg.No.E18EER024), and **HARIPRASAD V** (Reg.No.E18EEL308) who carried out the project work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

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

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

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

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

## 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

Nagapattinam-611 002



**SIGNATURE**

**Prof. S.SIVAMANI, M.E.,**

**SUPERVISOR**

Assistant Professor

Dept. of Electrical and Electronics

Engineering

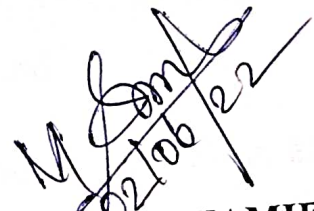
E.G.S. Pillay Engineering College

Nagapattinam-611 002

02/06/2022



**INTERNAL EXAMIER**

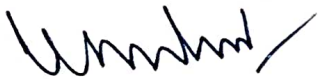


**EXTERNAL EXAMIER**

# 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



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  
Engineering  
E.G.S.Pillay Engineering college  
(Autonomous)  
Nagapattinam-611 002



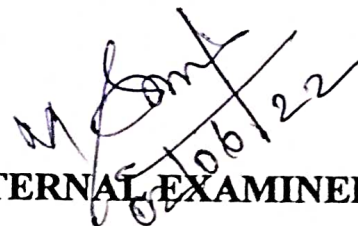
SIGNATURE

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



EXTERNAL EXAMINER

**ANNA UNIVERSITY :: CHENNAI 600 025**

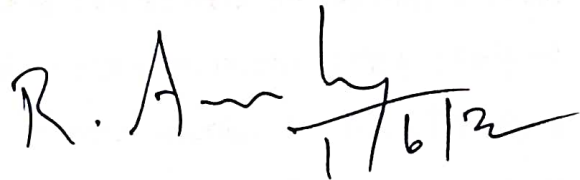
**BONAFIDE CERTIFICATE**

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



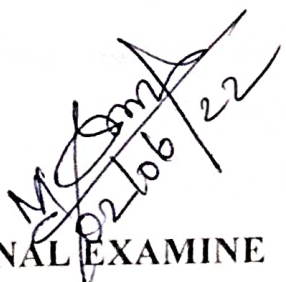
**SIGNATURE**

**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

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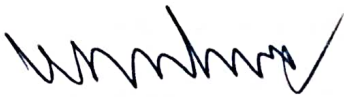
**INTERNAL EXAMINER**



**EXTERNAL EXAMINE**

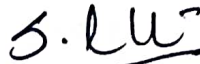
BONAFIDE CERTIFICATE

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

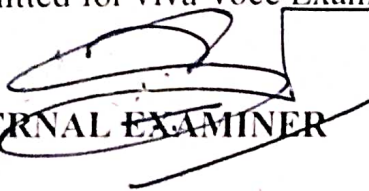
Dr.V.MOHAN, M.E.,,Ph.D.,  
HEAD OF THE DEPARTMENT  
PROFESSOR  
Electrical and Electronics Engineering  
E.G.S Pillay Engineering College  
(Autonomous)  
Nagapattinam - 611 002



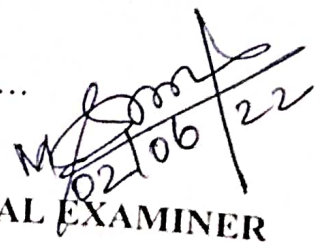
SIGNATURE

Mrs.S.LATHA, M.E.,(Ph.D.)  
SUPERVISOR  
ASSISTANT PROFESSOR  
Electrical and Electronics Engineering  
E.G.S Pillay Engineering College  
(Autonomous)  
Nagapattinam - 611 002

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



INTERNAL EXAMINER



EXTERNAL EXAMINER

# ANNAUNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

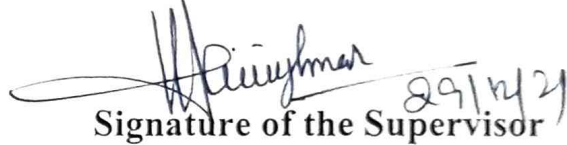
Certified that this report titled “SOLAR POWERED ENERGY EFFICIENT DISRIBUTION SYSTEM BASED ON INTERLEAVED FLYBACK CONVERTER TOPOLOGY” is the bonafide work of ANANTH R (E20PEF001) who carried out the work under my supervision. Certified further that to the best of my knowledge the work reported herein 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.

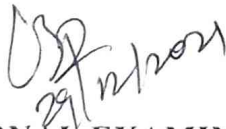


**Signature of the Supervisor**

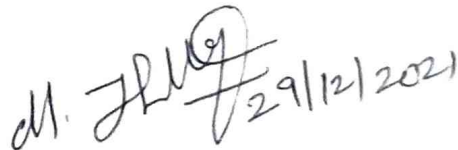
**Dr. M.VIJAYAKUMAR, M.E.,Ph.D.,  
ASSOCIATE PROFESSOR**

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

Submitted for the Project Phase-I viva voce examination held on 29/12/2021



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# ANNAUNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this report titled "SOLAR FED FLC BASED LANDSMAN CONVERTER FOR EV APPLICATIONS " is the bonafide work of ANBARASAN U (E20PEF002) who carried out the work under my supervision. 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 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.,  
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Dept. of Electrical and Electronics Engineering,  
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Nagapattinam -611 002

Submitted for the Project Phase-II viva voice examination held on 12/7/22



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



ANNAUNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this report titled "IMPROVEMENT OF POWER FACTOR USING FLYBACK CONVERTER FED DC MICROGRID" is the bonafide work of HARIKRISHNA S (E20PEF003) who carried out the work under my supervision. 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.M.VIJAYAKUMAR, M.E., Ph.D.,**  
Associate Professor & PG HOD,  
M.E. Power Electronics and Drives  
Dept.of Electrical & Electronics Engineering,  
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Nagapattinam -611 002.




Signature of the Supervisor

**Dr.M.VIJAYAKUMAR, M.E., Ph.D.,**  
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E.G.S.Pillay Engineering College,  
Nagapattinam -611 002

Submitted for the Project Phase-II viva voce examination held on 12-07-2022



INTERNAL EXAMINER



EXTERNAL EXAMINER

# ANNA UNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this Report titled “Device Simulation of Hybrid Quantum Dot Solar Cell for Power System” is the bonafide work of JHAGANNATH K (E20PEF004) who carried out the work under my supervision. 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. M.VIJAYAKUMAR, M.E., Ph.D.,**  
Associate Professor & PG HOD  
M.E. Power Electronics & Drives,  
Dept. of Electrical & Electronics Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam.



Signature of the Supervisor

**Mr. P.J.SURESH BABU, M.E., (Ph.D.)**  
Assistant Professor  
Dept. of Electrical & Electronics Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam.

Submitted for the Project Phase-II viva voce examination held on 12/07/2022



INTERNAL EXAMINER



EXTERNAL EXAMINER

# ANNA UNIVERSITY, CHENNAI


## BONAFIDE CERTIFICATE

Certified that this report titled "SPEED CONTROL OF BLDC MOTOR DRIVE USING LUO CONVERTER" is the bonafide work of KALIDOSS S (E20PEF005) who carried out the work under my supervision. 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

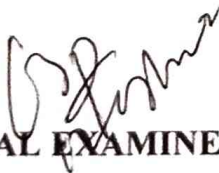
**Dr. M.VIJAYAKUMAR, M.E., Ph.D.,**  
**ASSOCIATE PROFESSOR /PG HOD,**  
**M.E. Power Electronics & Drives,**  
Dept. of Electrical and Electronics Engineering,  
E.G.S.Pillay Engineering College (Autonomous),  
Nagapattinam -611 002.



Signature of the Supervisor

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

Submitted for the Project Phase-II viva voice examination held on 12/07/22



INTERNAL EXAMINER



EXTERNAL EXAMINER

# ANNAUNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this report titled "A 21-LEVEL INVERTER FOR SEPIC CONVERTER BASED SOLAR APPLICATIONS USING ANFIS MPPT" is the bonafide work of MARIMUTHU B (E20PEF006) who carried out the work under my supervision. 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 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.,**

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Nagapattinam -611 002

Submitted for the Project Phase-II viva voce examination held on 12/07/2022



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# ANNAUNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this report titled “HYBRID ENERGY STORAGE SYSTEM FOR GRID TIED EV APPLICATION” is the bonafide work of RAMANAN R (E20PEF007) who carried out the work under my supervision. 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.

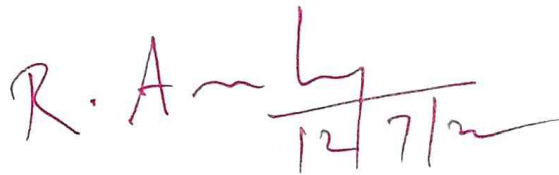


Signature of Head of the Department

**Dr.M.VIJAYAKUMAR, M.E., Ph.D.,**

**ASSOCIATE PROFESSOR & HEAD**

M.E. POWER ELECTRONICS AND DRIVES  
Dept. of Electrical and Electronics Engineering,  
E.G.S. Pillay Engineering College (Autonomous),  
Nagapattinam -611 002.



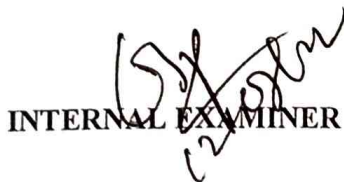
Signature of the Supervisor

**Mr. R. ANANDARAJ M.E.,**

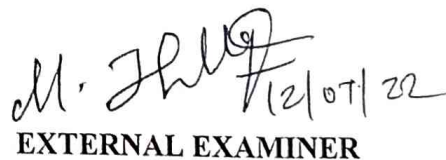
**ASSOCIATE PROFESSOR**

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

Submitted for the Project Phase-II viva voice examination held on 12/07/2022




INTERNAL EXAMINER




EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this report titled “**SEPIC CONVERTER BASED BATTERY MANAGEMENT SYSTEM** ” is the bonafide work of **SAMSON EBINAZER J (E20PEF008)** who carried out the work under my supervision. 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.M.VIJAYAKUMAR, M.E., Ph.D.,**  
**Associate Professor/PG HOD,**  
**M.E. Power Electronic & Drive,**

Dept. of Electrical & Electronics Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam- 611002.

  
**Signature of the Supervisor**  
**Dr.T.SURESH PADMANABHAN,M.E., Ph.D.,**  
**Professor and Head,**

Dept. of Electrical & Electronics Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam – 611002.

Submitted for the Project Phase-II viva voce examination held on 12/7/22

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

# ANNAUNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this report titled “FUZZY CONTROLLER BASED SINGLE PHASE BIDIRECTIONAL ELECTRIC DRIVE SYSTEM” is the bonafide work of SIVASANGARAN R (E20PEF009) who carried out the work under my supervision. 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 HOD**

**Dr.V.MOHAN, M.E., Ph.D.,  
PROFESSOR & HEAD**

Dept. of Electrical & Electronics Engineering,  
E.G.S.Pillay Engineering College,  
Nagapattinam -611 002.



**Signature of the Supervisor**

**Dr.T.SURESH PADMANABHAN, M.E., Ph.D.,  
PROFESSOR**

Dept. of Electrical & Electronics Engineering,  
E.G.S.Pillay Engineering College  
Nagapattinam -611 002.

Submitted for the Project Phase-I viva voce examination held on 29/12/21



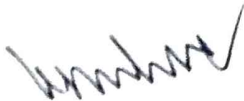
**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report titled, "SOLAR DC HOME" is the bonafide work of E.RIFATHAHAMED (Reg. No. E19EER040), A.SALMANIHARISH(Reg. No. E19EER042), R.SAJITHRAM (Reg. No. E19EEL311) and R.SATHISHKUMAR (Reg. No. E19EEL312) who carried out the project work under my supervision.



**SIGNATURE**

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

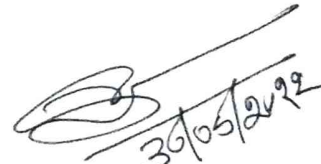
**HEAD OF THE DEPARTMENT**

Professor

Dept. of Electrical and Electronics  
Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002



**SIGNATURE**

**Mr.P.J.Suresh Babu M.E., [Ph.D.,]**

**SUPERVISOR**

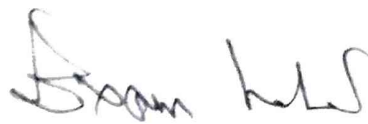
Assistant Professor

Dept. of Electrical and Electronics  
Engineering

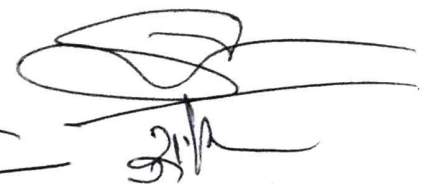
E.G.S. Pillay Engineering College

Nagapattinam-611 002

2



on 31/08/22





## BONAFIDE CERTIFICATE

Certified that this project report titled, “**ARDUINO BASED SPEED CONTROL OF FAN**” is the bonafide work of **NIYASUDEEN.N** (Reg. No. E19EER036), **PRAKASH RAJ.S** (Reg. No. E19EER037), **RAGUNANTHAN.G** (Reg. No. E19EER038) and **SANTHOSH.R** (Reg. No. E19EER043) who carried out the project work under my supervision.



**SIGNATURE**

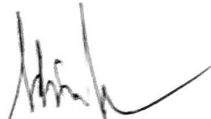
**Dr.V.MOHAN, M.E., Ph.D.,**

**HEAD OF THE DEPARTMENT**

Professor

Dept. of Electrical and Electronics  
Engineering

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



**SIGNATURE**

**Mr.K.KRISHNARAM, M.Tech.,**

**SUPERVISOR**

Asst Professor

Dept. of Electrical and Electronics  
Engineering

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

Project Exam held on 31/05/2024



## BONAFIDE CERTIFICATE

Certified that this project report titled, “**NON-CONTACT TACHOMETER USING ARDUINO**” is the bonafide work of **S.VIGNESH** (Reg. No. E19EER054), **M.ASHOKKUMAR** (Reg.No. E19EEL302), **A.BALAJE** (Reg.No. E19EEL303), and **D. KEERTHIVASAN** (Reg. No. E19EEL305) 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**

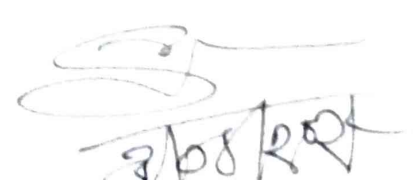
**Mr. B. Amalore Naveen Antony, M.E.,(Ph.D.)**

**SUPERVISOR**

Assistant Professor

Dept. of Electrical and Electronics  
Engineering

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

*Project Vibe held on 3/05/2022* 

## BONAFIDE CERTIFICATE

Certified that this project report titled, "ZERO CROSSING DETECTOR FOR POWER ELECTRONICS APPLICATION" is the bonafide work of SURAJ SINGH (REG.NO E19EER048), M.ABIKUMAR (Reg. No. E19EEL306), D.DINESH (Reg.No.E19EEL304), K.RAJESH KUMAR (Reg. No. E19EEL309) and S.SABARI (Reg. No. E19EEL310) who carried out the project work under my supervision.



SIGNATURE

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

**HEAD OF THE DEPARTMENT**

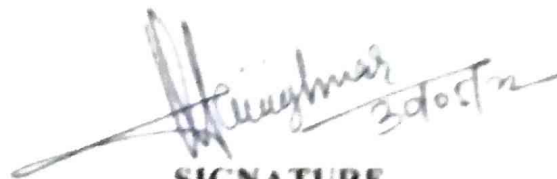
Professor

Dept. of Electrical and Electronics

Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002



SIGNATURE

**Dr. M. VIJAYAKUMAR, M.E., Ph.D.,**

**SUPERVISOR**

Associate Professor

Dept. of Electrical and Electronics

Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

Project Use Exam 31/05/2022

## BONAFIDE CERTIFICATE

Certified that this mini project report titled, "AUTOMATIC SANITIZER DISPENSER" is the bonafide work of SRISHIKESH-E19EER041, P.SARAVANAN-E19EER044, MSURENDRAPRASAD-E19EER050, JVARATHARAJAN-E19EER052 and Y.VASEEM AKRAM-E19EER053 who carried out the project work under my supervision



SIGNATURE

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

HEAD OF THE DEPARTMENT

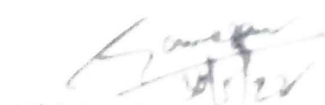
Professor

Dept. of Electrical and Electronics

Engineering,

E.G.S Pillay Engineering College

Nagapattinam-611002



SIGNATURE

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

SUPERVISOR

Associate Professor

Dept. of Electrical and Electronics

Engineering,

E.G.S Pillay Engineering College,

Nagapattinam- 611002

Project Done till a 1/10/2022  
- 2/1/2022  
- 3/1/2022

## BONAFIDE CERTIFICATE

Certificate that the project work entitled "Radio Detection And Ranging Using Arduino" carried out by S.Sivashankar (E19EER046), R.Somnath (E19EER047), J.Sriram (E19EER016),K.Vijay (E19EER055),G.Vijayakumar (E19EER056) are bonafide students of E.G.S Pillay Engineering (Autonomus) College, 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**

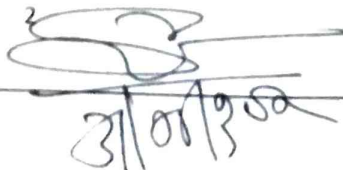
-----  
**Dr. V. MOHAN., M.E., Ph.D.,**

Professor & HOD  
Dept. of Electrical & Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002

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

Associate Professor  
Dept. of Electrical & Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002

Project viva held on 31/05/2022



## BONAFIDE CERTIFICATE

Certified that this project report titled, "AUTO THEFT ALERT SYSTEM USING ARDUINO" is the bonafide work of **DIVINRAJ.K** (Reg.No.E19EER008), **DINESHKUMAR.R** (Reg. No.E19EER009), **DURAIMURUGAN.M** (Reg.No.(E19EER012), and **MUKILAN.P** (Reg.No.E17EER036) 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 M.E., MIE., Ph.D.,**

**SUPERVISOR**

Associate Professor

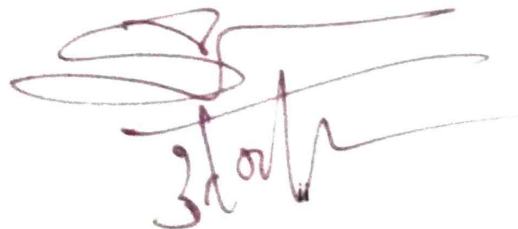
Dept. of Electrical and Electronics

Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002

*Examination held on 31/01/2022*



## BONAFIDE CERTIFICATE

Certified that this mini project report titled, "SMART PLANT IRRIGATION SYSTEM" 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**

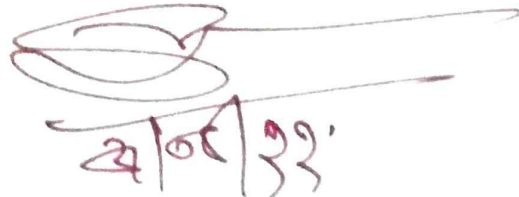
**Dr. T. SURESH PADMANABHAN.,**

**M.E., Ph.D.,**

**SUPERVISOR**

Professor  
Dept. of Electrical and Electronics Engineering,  
E.G.S. Pillay Engineering College, (Autonomous),  
Nagapattinam – 611 002.

Project Presentation held on 21/04/2022



21/04/22

## BONAFIDE CERTIFICATE

Certified that this project report titled, "AIR QUALITY MONITERING SYSTEM" is the BONAFIDE work of DOMINIC ROSARIO.S (Reg. No. E19EER012), JEGAJEEVI.J (Reg. No. (E19EER016), KARTHIK. S (Reg. No. E19EER019) and MUTHU KRISHNAN. R (Reg. No. E19EER032) who carried out the project WORK my supervision.



**SIGNATURE**

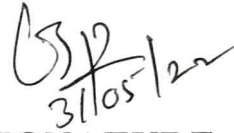
Dr V. MOHAN ME., Ph.D.,

Professor & HOD

Dept. of Electrical and Electronics  
Engineering.

E.G.S Pillay Engineering College.

Nagapattinam - 611 002



**SIGNATURE**

Dr T. SURESH PADMANABHAN ME., Ph.D.,

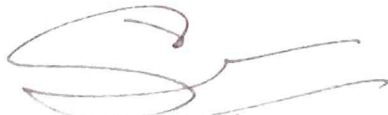
professor

Dept. of Electrical and Electronics  
Engineering

E.G.S Pillay Engineering College.

Nagapattinam - 611 002

Project Viva held on 31/05/2022



31/05/2022



## BONAFIDE CERTIFICATE

Certified that this mini-project report titled “**OBSTACLE AVOIDING FOR CAR USING ARDUINO**” is the Bonafide work of **AHAMED.A (E19EEL301), MOHAMED DHILSATH HUSSAIN.S (E19EEL307), NITHEESH.S (E19EEL308)** and **SRIRAM.V (E19EEL313)** who carried out the projectwork 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. V.MOHAN M.E., Ph.D.,**

**SUPERVISOR**

Professor

Dept. of Electrical and Electronics  
Engineering

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

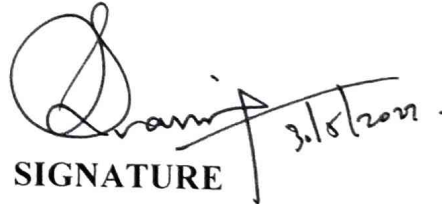
## BONAFIDE CERTIFICATE

Certified that this project report titled, “**MOBILE APPLICATION BASED HOME AUTOMATION SYSTEM USING IoT**” is the bonafide work of **GOVINDARAJULU M** (Reg. No. E19EER013), **KABILAN V** (Reg. No. E19EER017), **KULOTHUGAN S** (Reg. No. E19EER024) **and** **MANOJKUMAR S** (Reg. No. E19EER027) 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.S.SIVAMANI M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002

ii  
Project VNA held on 31/05/2022



# BONAFIDE CERTIFICATE

Certificate that the project work entitled "Humidity and Temperature Detector" carried out by M.Aravinth (E19EER006), S.Dinesh (E19EER010), A.John Milton (E19EER016), S.Manikandan (E19EER025) are bonafide students of E.G.S Pillay Engineering (Autonomous) College, 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**

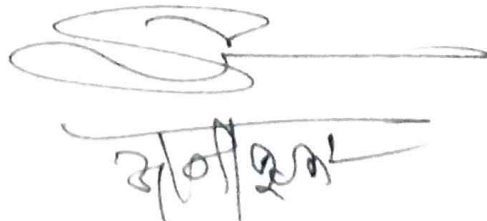
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**Dr.V.MOHAN.,M.E.,Ph.D.,**

Professor & HOD  
Dept.of Electrical & Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002

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

Associate Professor  
Dept.of Electrical & Electronics  
Engineering  
E.G.S. Pillay Engineering College  
Nagapattinam-611 002

Project Examination : 31/05/2022



## BONAFIDE CERTIFICATE

Certified that this project report titled, “**SOLAR ENERGY MONITORING SYSTEM**” is the bonafide work of **AARTHI S.(E19EER001),JANANE K S(E19EER015),KEERTHANA M(E19EER022)** and **SHARMILA M(E19EER045),UMAMAHE SWARI M (E19EER051)** who carried out the project work under my supervision.



**SIGNATURE**



**SIGNATURE**

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

**Mrs. S. LATHA**

**HEAD OF THE DEPARTMENT**

**SUPERVISOR**

Professor

Assistant Professor

Dept. of Electrical and Electronics  
Engineering

Dept. of Electrical and Electronics  
Engineering

E.G.S. Pillay Engineering College

E.G.S. Pillay Engineering College

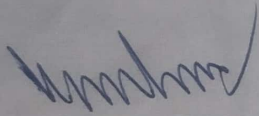
Nagapattinam-611 002

Nagapattinam-611 002

Project Form Held on 31/08/2023

## BONAFIDE CERTIFICATE

Certified that this project report titled, "AUTOMATIC LED EMERGENCY LIGHT" is the bonafide work of M.AAKASH (Reg. No. E18EER001), P.AKASH (Reg. No. E18EER002), A.AKASH RAJ (Reg. No. E18EER003) and D.AAKASH (Reg. No. E18EEL301) 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

*Late Submission*

*CSP*  
*27/12/2021*

SIGNATURE

Dr. T. SURESH PADMANABHAN  
M.E., Ph.D.,

SUPERVISOR

PROFESSOR

Dept.of Electrical and Electronics

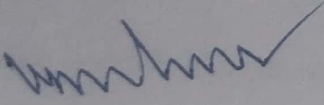
Engineering

E.G.S.Pillay Engineering college  
(Autonomous)

Nagapattinam-611 002

## BONAFIDE CERTIFICATE

Certified that this Project Report Titled, "AUTOMATIC IRRIGATION SYSTEM USING ARDUINO UNO" is the Bonafide Work of ARUNKUMAR R (E18EER005), BALAGANESH S (E18EER006), CHOZHAN M (E18EER007) and AJAY M (E18EEL302) Who Carried Out the Project Work Under my Supervision.



SIGNATURE

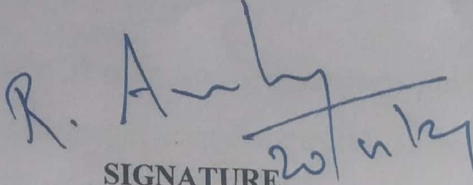
Dr. V. MOHAN., M.E, Ph.D.,

HEAD OF THE DEPARTMENT

Dept. of Electrical and Electronics Engg,

E.G.S. Pillay Engineering College

Nagapattinam-611002



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

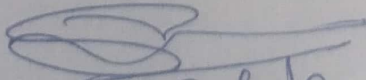
SUPERVISOR

Dept. Of Electrical and Electronics Engg,

E.G.S. Pillay Engineering College

Nagapattinam-611002

Exam Conducted on 27/12/2021.

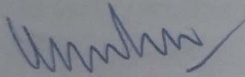


28/12/21



## BONAFIDE CERTIFICATE

Certified that this project report titled, "DUAL AXIS SOLAR TRACKING SYSTEM" is the bonafide work of DEEPAK.T (Reg.No. E18EER008), DHARIK AHAMED.S(Reg.No.E18EER009), DHEEPAKRAM.R (Reg. No. E18EER010) and ANANDTHKUMAR.S (Reg. No. E18EEL303) who carried out the project work under my supervision.



SIGNATURE

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

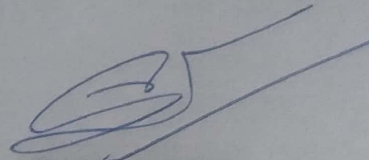
HEAD OF THE DEPARTMENT

Professor

Dept. of Electrical and Electronics  
Engineering

E.G.S. Pillay Engineering College

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SIGNATURE

Mr. P.J.SURESH BABU M.E.,(Ph.D).,

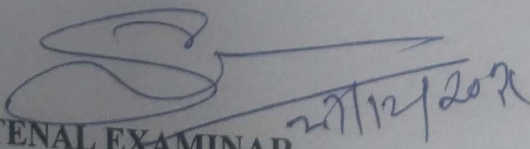
PROJECT GUIDE

Associate Professor

Dept. of Electrical and Electronics  
Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611 002



INTERNAL EXAMINAR

## BONAFIDE CERTIFICATE

Certified that this project report titled, "DESIGN AND TESTING OF A MOBILE PHONE JAMMER " is the bonafide work of JAGATHEESH.R (Reg.No. E18EER013),IMRANNAZIR.N (Reg.No.E18EER011),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  
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E.G.S. Pillay Engineering College  
Nagapattinam-611 002

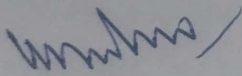
  
SIGNATURE

**Dr.G.GANESAN**  
**@SUBRAMANIAN M.E., Ph.D.,**  
**MIE.,**  
**SUPERVISOR**  
Associate Professor  
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Engineering  
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Nagapattinam-611 002



## BONAFIDE CERTIFICATE

Certified that this project report titled, "PORTABLE ULTRASONIC RANGE METER" is the bonafide work of **KALIDOSS.K** (Reg. No. E18EER015), **KAMALESH.K** (Reg. No. E18EER016), **KEERTHIVASAN.B** (Reg. No. E18EER017) and **BHARATHIRAJA.G** (Reg. No. E18EEL306) 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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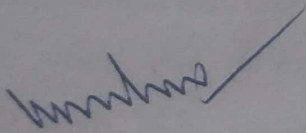


SIGNATURE

**B.AMALORE NAVEEN ANTONY, M.E.,**  
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Professor  
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Engineering  
E.G.S. Pillay Engineering College  
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## BONAFIDE CERTIFICATE

Certified that this project report title "AUTOMATIC CHANGE OVER SYSTEM USING 555 TIMER" is the bonafide work of KEVIN CHRISTOPHER A (E18EER018), KIRUPAKARAN M (E18EER019), KUMARAVEL M (E18EER021) and GOPIKRISHNAN P (E18EEL307) who carried out the project work under my supervision.



**SIGNATURE**

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

Professor

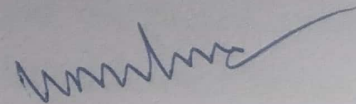
Dept. of Electrical and

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

Professor

Dept. of Electrical and

Electronics Engineering

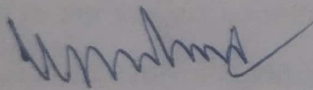
E.G.S. Pillay Engineering

College

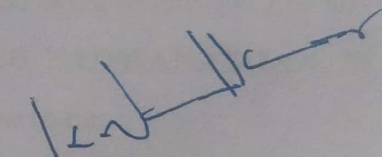
Nagapattinam-611 002

## BONAFIDE CERTIFICATE

Certified that this project report titled, "TOUCH ON AND OFF SWITCH CIRCUIT" 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**



**SIGNATURE**

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

**Prof.K.NANDAKUMAR M.E., (Ph.D).,**

**HEAD OF THE DEPARTMENT**

**SUPERVISOR**

Professor

Assistant Professor

Dept.of Electrical and Electronics  
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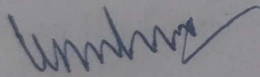
Dept.of Electrical and  
Engineering

E.G.S.Pillay Engineering College  
Nagapattinam-611002

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Nagapattinam-611 002

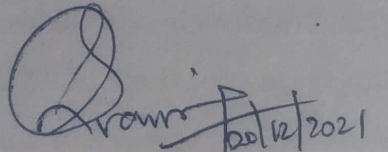
## BONAFIDE CERTIFICATE

Certified that this project report titled is **AUTOMATIC WATER LEVEL INDICATOR** 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  
Nagapattinam-611 002

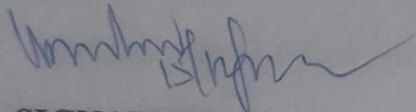


**SIGNATURE**

**Prof. S.SIVAMANI, M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Dept. of Electrical and Electronics  
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E.G.S. Pillay Engineering College  
Nagapattinam-611 002

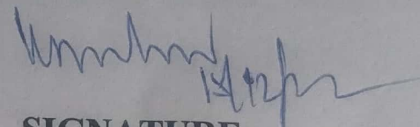
## BONAFIDE CERTIFICATE

Certified that this project report titled, "**BATTERY LEVEL INDICATOR**" is the bonafide work of **KARTHIKEYAN.R** (Reg. No. E18EEL310), **REEHAN.B** (Reg. No. E18EER028), **SADEESH KUMAR.P** (Reg. No. E18EER029) and **SHIRAZUDEEN.H** (Reg. No. E18EER032) 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

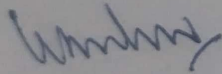


**SIGNATURE**

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

## BONAFIDE CERTIFICATE

Certified that this project report titled, "DESIGN OF HOME AUTOMATION USING ARDUINO" is the bonafide work of SRIRAM.M (Reg. No. E18EER0), SUJITH VARMAN.S (Reg. No. E18EER034),SURIYA PRAKASH.A (Reg. No. E18EER035) and KARTHIK RAJA.R (Reg. No. E18EEL311) who carried out the project work under my supervision.



SIGNATURE

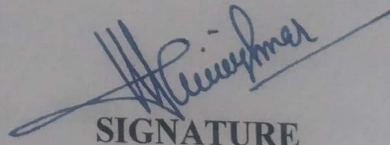
Dr. V.MOHAN M.E., Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Dept. of Electrical and Electronics  
Engineering

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



SIGNATURE

Dr. M.VIJAYAKUMAR M.E., Ph.D.,

SUPERVISOR

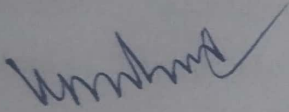
Associate Professor

Dept. of Electrical and Electronics  
Engineering

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

## BONAFIDE CERTIFICATE

Certified that this project report titled, "ARDUINO BASED RAIN 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.,

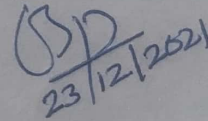
HEAD OF THE DEPARTMENT

PROFESSOR

Dept.of Electrical and Electronics Engineering

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Nagapattinam-611 002



SIGNATURE

Dr. T. SURESH PADMANABHAN M.E., Ph.D.,

SUPERVISOR

PROFESSOR

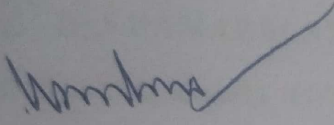
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Nagapattinam-611 002

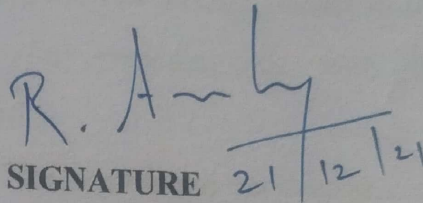
## BONAFIDE CERTIFICATE

Certified that this project report titled, "**MOBILE PHONE DETECTOR**" is the bonafide work of **VIGNESH R** (Reg.No. E18EER039), **VISHNU R** (Reg.No.E18EER041), **MANOJ M** (Reg.No. E18EEL313) and **MOHAMMED ABBAS C** (Reg.No. E18EEL314) who carried out the project work under my supervision.



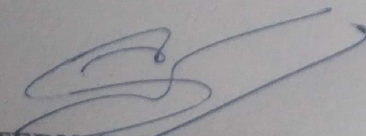
**SIGNATURE**

**Dr. V.MOHAN, M.E., Ph.D.,**  
**HEAD OF THE DEPARTMENT**  
Professor  
Dept. of Electrical and Electronics  
Engineering  
E.G.S. Pillay Engineering College  
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**SIGNATURE** 21/12/21

**Mr.R. ANANDARAJ., M.E., (Ph.D)**  
**SUPERVISOR**  
Associate Professor  
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Nagapattinam-611 002

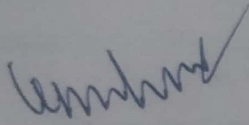


**INTERNAL EXAMINER**



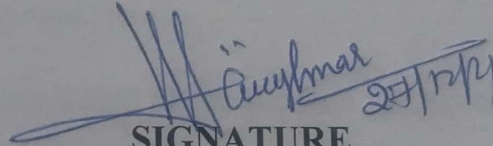
## BONAFIDE CERTIFICATE

Certified that this project report titled, "AUTOMATIC STREET LIGHT CONTROLLER USING LDR" is the bonafide work of **R.RAMKUMAR** (Reg. No. E18EEL315), **S.SATHISH** (Reg. No. E18EEL316), **S.VIGNESHWARAN** (Reg. No. E18EEL318) and who carried out the project work under my supervision.



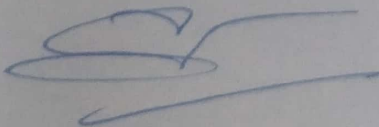
**SIGNATURE**

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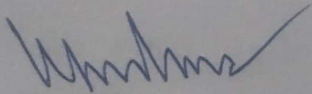
**Dr. M.VIJAYAKUMAR., M.E., Ph.D.,**  
**SUPERVISOR**  
**ASSOCIATE PROFESSOR**  
Dept.of Electrical and Electronics  
Engineering  
E.G.S.Pillay Engineering college  
(Autonomous)  
Nagapattinam-611 002



**Internal Examiner**

## BONAFIDE CERTIFICATE

Certified that this Project Report Titled, "MOTION DETECTOR CIRCUIT" is the Bonafide work P.AMIRTHAVARSHINI (E18EER004), P.ISHWARYA (E18EER012), S.KIRUTHIGA (E18EER020), I.TAMILPOONGHUZHALLY (E18EEL317) Who Carried out the Project Work under My Supervision.

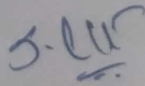


SIGNATURE

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

HEAD OF THE DEPARTMENT

Dept. of Electrical and Electronics  
Engineering,  
E.G.S. Pillay Engineering College,  
Nagapattinam - 611002.



SIGNATURE

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

PROJECT GUIDE

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E.G.S. Pillay Engineering College,  
Nagapattinam - 611002.