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 P (E18EER002), AKASH D (E18EEL317)" who carried out the project work under my supervision.

SIGNATURE

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

NTERNAL EXAMINER

EXTERNOEXAMINER

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED PROTECTION SYSTEM TO OVER COME VOLTAGE PLUCTUATIONS" 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

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

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SIGNATURE

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

INTERNAL EXAMINER

EXTERNADEXAMINER

BONAFIDE CERTIFICATE

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INTERNAL EXAMINER

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EXTERNAL EXAMINED

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

PRINCIPAL

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.

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EXTERNAL EXAMINER

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BONAFIDE CERTIFICATE

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(E18EER006) CHOZHAN M (E18EER007), AJAY M (E18EEL302)"

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INTERNAL EXAMINER

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Dr. S. RAMABALAN, M.E., Ph.D.,
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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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ATTESTO EXTERNAL EXA

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

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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.

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ATTESTE

EXTERNAL EXAMINER

INTERNAL EXAMINER

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

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 POONGHUZHALY (E18EEL317) who carried out the project work under my supervision.

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Nagapattinam - 611 002

Submitted for viva-voce Examination held on .. 02-06-2021

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PRINCIPAL

BONAFIDE CERTIFICATE

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INTERNAL EXAMINER

EXTERNAL EXAMINER

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BONAFIDE CERTIFICATE

Certified that this project report titled, "INVESTIGATIONS AND MODELLING OF RENEWABLE POWERED ELECTRONIC JAMMER FOR **POINT** CALIMERE BIRD LIFE SANCTUARY 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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Examination Held on 02 - 06/2022

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ERNAL EXAMINER

Dr. S. RAMABA PRINCIPAL E.G.S. Pilitay Engineering College.

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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 ENGINEERING is the original work carried out by me. It has not formed ELECTRONICS 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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KIRUPAKARAN M (E18EER019)

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GOPIKRISHNAN P (E18EEL307)

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(E18EEL317) who carried out the project work under my supervision.

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Submitted for viva-voce Examination held on .. 02-06-2021

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DECLARATION

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KEVIN CHRISTOPHER A (E18EER018)

by

KIRUPAKARAN M (E18EER019) (M. Mil

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

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Professor, Dept. of Electrical and Electronics Engineering

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.

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

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Project viva-voce Examination Held on 02/96/9.22

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Nagore - 611 002.

EXTERNAL EXAMINER

INTERNAL EXAMINER

ii

BONAFIDE CERTIFICATE

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(Reg.No.E18EER023),

MURUGESHKANNAN

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(Reg.No.E18EER024),and HARIPRASAD V (Reg.No.E18EEL308) who carried out the project work under my supervision.

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Project viva-voce Examination Held on 02/96/2222

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Project viva-voce Examination Held on 02/96/222

Dr. S. RAMABALAN, THERMOLL PRINCIPAL

BONAFIDE CERTIFICATE

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

SIGNATURE

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02/06/2022

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BONAFIDE CERTIFICATE

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SIGNATURE

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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 supervisior. 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.

/mhmw

Signature of the Head of the Department

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

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INTERNAL EXA

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Signature of the Supervisor

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

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E.G.S. Pillay Engineering College,

(Autonomous) Nagapattinam -611 002

EXTERNAL EXAMINER

Submitted for the Project viva voice examination held on 02/06/9022

ESTED/

--

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

PRINCIPAL

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 supervisior. 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.

/mhmw

Signature of the Head of the Department

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

Dept. of Electrical and Electronics Engineering,

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Summe

Signature of the Supervisor

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

Dept. of Electrical and Electronics Engineering,

E.G.S. Pillay Engineering College,

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Submitted for the Project viva voice examination held on <u>02/06/901</u>2

NTERNAL EXAMPLER

ATTESTED TERNAL EXAMINER

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

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

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Submitted for the Project viva voice examination held on 02/06/9022

ATTESTEDEXTERNAL EXAMINER

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

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.,

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Nagapattinam-611 002

Submitted for the Viva voce Examination held on <u>02.06.2022</u>

LEXAMINER

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Nagapattinam (Dt) Tamil Nadu.

BONAFIDE CERTIFICATE

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SIGNATURE

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INTERNAL EXAMINER

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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

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Nagapattinam-611 002

Submitted for the Viva voce Examination held on <u>02.06.202</u>

INTERNAL EXAMINER

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

PRINCIPAL

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.

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SIGNATURE

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

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Nagapattinam - 611 002

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Nagapattinam - 611 002

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

INTERNAL EXAMINER

Ir. S. RAMABALAN EXTERNAL EX

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.

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

INTERNAL EXAMINER

ATTESTED

, NEXTERNAL EX

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.

Jummy Janes

SIGNATURE

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

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

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

INTERNAL EXAMINER

DANABALAN, MELDI

Dr. S. RAMABALAN, M.E EXTERN

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.

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

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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Project viva voce examination held on 02 - 06 - 2022

EXTERNAL EXAMINER

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

PRINCIPAL

BONAFIDE CERTIFICATE

Certified that this project report titled, "INVESTIGATIONS AND MODELLING OF RENEWABLE POWERED ELECTRONIC JAMMER FOR POINT CALIMERE BIRD LIFE **SANCTUARY** 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.,

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

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

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Examination Held on 02 - 06/2022

INTERNAL EXAMINER

TERNAL EXAMINER

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

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)

dy

KIRUPAKARAN M (E18EER019)

M. Mines

KUMARAVEL M (E18EER021)

M.H.

GOPIKRISHNAN P (E18EEL307)

fet

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

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

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

- whomh'

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

SIGNATURE

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

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

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Nagapattinam-611 002

Nagapattinam-611 002

Project viva-voce Examination Held on 02/96/9.222

TERNAL EXAMINER

Dr. S. RAMABAKAN ERNAL EXAMINER
PRINCIPAL

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

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02/06/2022

EXAMIER

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

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

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/mhm/ Signature of the Head of the Department

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

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INTERNALEX

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Suhmal Signature of the Supervisor

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

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Submitted for the Project viva voice examination held on <u>02/06/902</u>2

XTERNAL EXAMINER

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

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.

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Submitted for the Viva voce Examination held on <u>02.06.2022</u>

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. RAMABAYAN, M.E., Ph.D.,

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E.G.S. Pillay Engineering College, Thethi, Nagore - 611 002.

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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.

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SIGNATURE

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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.

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INTERNAL EXAMINER

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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 POONGHUZHALY

(E18EEL317) who carried out the project work under my supervision.

SIGNATURE

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Nagapattinam - 611 002

Submitted for viva-voce Examination held on .. 02-06-2021

INTERNAL EXAMINER

EXTERNAL

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

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

menhow

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

HEAD OF THE DEPARTMENT

Professor,

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Nagapattinam – 611 002.

17/22

SIGNATURE

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Professor

Dept. of Electrical and Electronics Engineering,

E G S Pillay Engineering College, (Autonomous),

Nagapattinam – 611 002.

Examo Goducted on 23/2/2021

Dr. S. RAN

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.,

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SIGNATURE

Mr.K.NANDA KUMAR, M.E., (Ph.D).,

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Assistant Professor

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Internal Evaluation Exam Conflicted ANTABALAN, M.E. Ph.D.,

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 (E19EER025) 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.

myny

Signature of the HOD

Signature of the Guide

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

Professor & HOD

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

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Internal Ender on Error. Controlled on Dr. S. RAMABALAN, M.E. Ph.D.

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

PRINCIPAL

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PRINCIPAL

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.

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

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SIGNATURE

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