CERTIFICATE OF APPRECIATION

Proudly Presented to

AARTHI T

Who has attended

rameda Learning and Development Academy (RLDA)

Summer internship program 2022

From 4th Dec 2021 - 7th Jan 2022 Virtually

rameda
Learning & Development Academy
Summer Internship 2022
Not an internship ... yet a Partnership

07-01-2022

DATE

SIGNATURE

trainity

APPROVED

Virtual Internship Certificate

This to certify

ADHIRAI V

for successfully completing the Software Development virtual internship track for a period

of 2 months hosted on Trainity platform starting
28 January 2022

Date

6 Apr 2022

Rahul Gupta (CEO, Trainity)

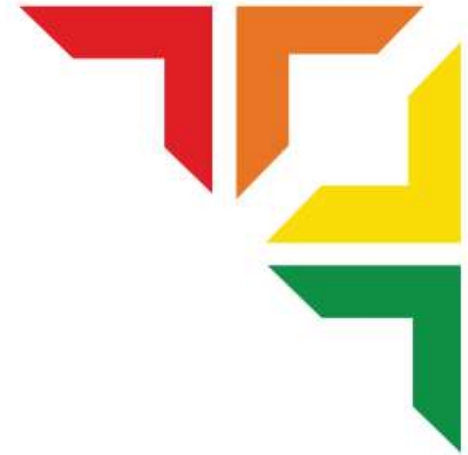# *Certificate of Completion*

ABISHEK J

has successfully completed one month internship at YBI Foundation in Fundamental of Machine Learning with Python for Business & Data Analytics at YBI Foundation from 23rd January'22 to 22th February'22.

Date : Wednesday, Feb 22 2022

YBI Foundation

www.ybifoundation.org

support@ybifoundation.org

CERTIFICATE OF APPRECIATION

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ANISHA K

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BHUVANESHWARI K

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28 January 2022

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6 Apr 2022

Rahul Gupta (CEO, Trainity)

INTERNSHIP
CERTIFICATION

THREAT PRISM

This is to certify that

HARI RAJAN N

has successfully completed internship program in Cyber Security and Ethical Hacking
from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent
Learning Driven Excellence

DIRECTOR SIGNATURE

Certificate of Completion

ARAVINDH J

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rameda

Quality For All

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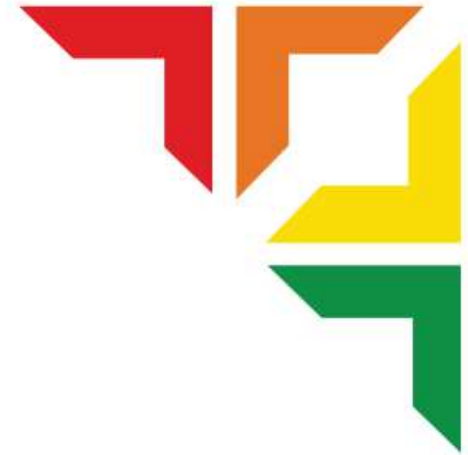
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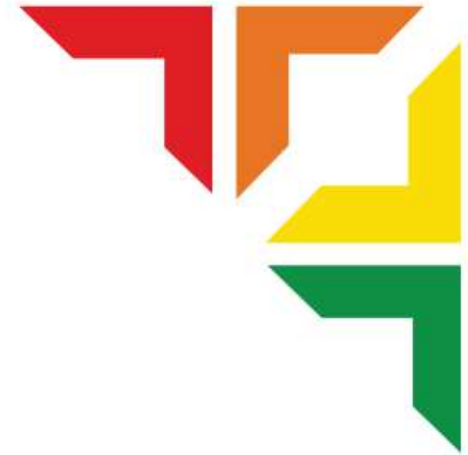
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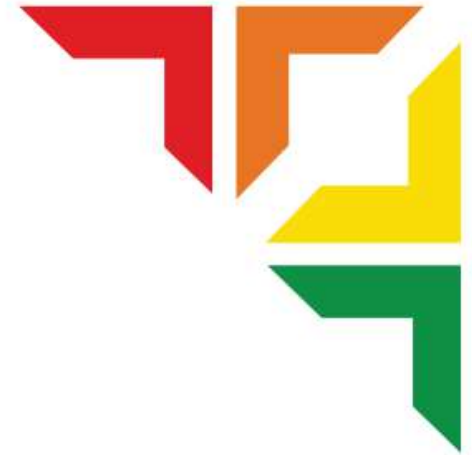
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KAMALESH J

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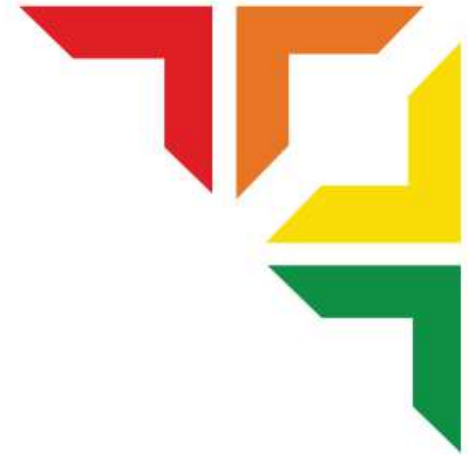# Certificate of Completion

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rameda

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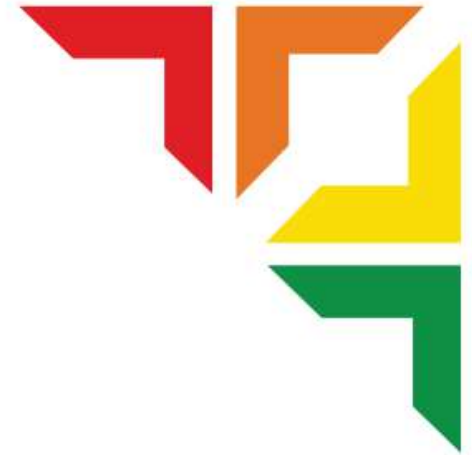
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MOHAMED JAFRAN M

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ACADEMIC HEAD

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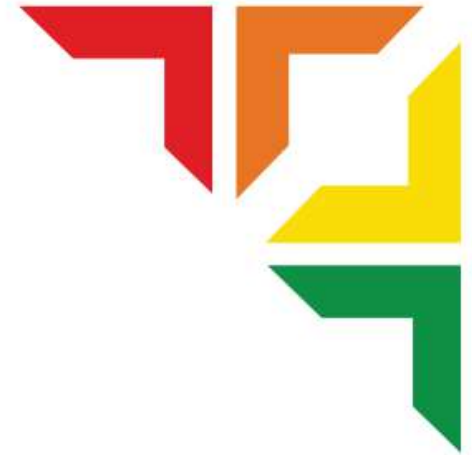
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BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

MANIKANDAN G

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

Honeysha
Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

MOHAMED ASHIF S

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

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SAVORY MINDS

Certificate

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Cyber Security held during

FEB 1- MAR 31 2022

CEO
K SIREESHA JAISWAL

CHAIRMAN
B Y AMITH KUMAR

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CEO

K SIREESHA JAISWAL

B. Y. Amith Kumar

CHAIRMAN

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This certificate is proudly presented to

SUSHMITHA S

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

SANTHOSH KUMAR G

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

SARATHA A

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO

K SIREESHA JAISWAL

CHAIRMAN

B Y AMITH KUMAR

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

SASIDHARAN R

has successfully completed internship program in Cyber Security and Ethical Hacking
from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent
Learning Drives Excellence

DIRECTOR SIGNATURE

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

SATHISH R

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

SUBASHNA BERNATSHA S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO

K SIREESHA JAISWAL

CHAIRMAN

B Y AMITH KUMAR

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

SIVAPRASATH S

has successfully completed internship program in Cyber Security and Ethical Hacking from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

SIVASANKAR K

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

SRIJAN M

has successfully completed internship program in Cyber Security and Ethical Hacking from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent
Learning Drives Excellence

DIRECTOR SIGNATURE

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

SRITHARAN V

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

SUNMATHY S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO

K SIREESHA JAISWAL

CHAIRMAN

B Y AMITH KUMAR

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

SUGANTHADEVI V

has successfully completed internship program in Cyber Security and Ethical Hacking
from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

SWASTHIKA S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO
K SIREESHA JAISWAL

CHAIRMAN
B Y AMITH KUMAR

Honeysha
Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

SURYA PRAKASH K

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

Honeysha Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

SUSHMITHA S

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

SAVORY MINDS

Certificate
OF COMPLETION

THIS IS TO CERTIFY THAT

VARSHINI S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO
K SIREESHA JAISWAL

CHAIRMAN
B Y AMITH KUMAR

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

SWETHA S

has successfully completed internship program in Cyber Security and Ethical Hacking from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

Honeysha Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

THAYANITHI K

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

VIKARAM S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO

K SIREESHA JAISWAL

CHAIRMAN

B Y AMITH KUMAR

Honeysha
Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

VASEEKARAN S

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

VENKATESH R

has successfully completed internship program in Cyber Security and Ethical Hacking from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

VICKNESH V

has successfully completed internship program in Cyber Security and Ethical Hacking
from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

VIGNESH S

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

Honeysha
Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

VIJAYAKUMAR V

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

SAVORY MINDS

Certificate

OF COMPLETION

THIS IS TO CERTIFY THAT

VIKARAM S

Has Completed **Two Months Virtual Internship** on

Cyber Security held during

FEB 1- MAR 31 2022

CEO

K SIREESHA JAISWAL

CHAIRMAN

B Y AMITH KUMAR

Honeysha
Technologies

CERTIFICATE OF INTERNSHIP

This certificate is proudly presented to

MOHAMED ASIF

For successfully completing his internship at Honeysha Technologies, committing as a Software developer and providing services for the period between 23rd Jan 2022 - 20rd Feb 2022. Her ideas and hard work have successfully led to the growth of our team. Wishing him success in all his future endeavors.

SHASHANK TIWARI
Chief Executive Office

THREAT PRISM

INTERNSHIP
CERTIFICATION

This is to certify that

VISHVA S

has successfully completed internship program in Cyber Security and Ethical Hacking
from 25th Jan , 2022 to 25th Mar , 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent

DIRECTOR SIGNATURE

BOWLED.io

CERTIFICATE OF INTERNSHIP

This certifies that

YOGESH KUMAR K

has successfully completed the 1-month Game Testing Internship at Bowed.io. The competence and dedication demonstrated during the internship have been outstanding. The diligence in finding and reporting bugs, suggesting creative game ideas, and consistently offering valuable feedback have helped us improve our games.

Date: 18th February, 2023

Rahul Singh
Co-Founder - Bowled.io

Date: 05.02.2021

Certificate of Completion of Internship

This is to certify that Ms. A.Aarthi Student of B.E ... 3rd year of ... Engineering College, has completed her 2 weeks internship with us from 25.01.2021 to 05.02.2021

As part of our internship has done a study on "PCB Assembling & Design" – Production Department

During the period her conduct and character was good

We wish her all success in her future endeavours.

Regards

Metric Scales

To

M. Abarna

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that M. Abarna (E18ECR002), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Elseif Technologies Private Limited
Old No 25, New No 73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

2

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs......ABIRAMI. R.A...has successfully

undergone workshop & internship .EMBEDDED. SYSTEM USING. PYTHON

from..27.12.21.... to ...15.1.22.....in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3i Techso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

CERTIFICATE:

SD PRO SOLUTIONS

C.No: DECPY1007

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr./Ms. AKASH S (EIRECR005)

Has Successfully Completed INTERNSHIP **Training Program**
in " PYTHON "

During 15.12.2021 to 31.12.2021

Congratulations on a job well done!

Awarded this

Director

Technical Head

CERTIFICATE:

CERTIFICATE OF COMPLETION

This certificate is presented to

SD PRO SOLUTIONS

C.No: _DECPY1001_

Mr./Ms. _AMARESH B (EI8ECR006)_

Has Successfully Completed _INTERNSHIP_ **Training Program**

in " _PYTHON_ "

During _15.12.2021 to 31.12.2021_

Congratulations on a job well done!

Awarded this

Director

Technical Head

5

CERTIFICATE:

EL ELSEIF TECHNOLOGIES

27 December 2021

To

S. Arthi

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that S. Arthi (E18ECR007), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Elseif Technologies Private Limited
Old No.25, New No.73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

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PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL - 609 605

Awards this certificate to .... N. ARUNKUMAR IV - YEAR ....

B.E (ECE) OF E.G.S PILLAY ENGINEERING

COLLEGE , NAGAPATTINAM

for having successfully completed the In plant training on FM Broadcast Equipments

from 07.12.21 to 21.12.21 at All India Radio, Karaikal

Place : Karaikal

Date : 21.12.21

Head of Engineering
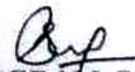
V.SIVARAMAKRISHNAN

श्री शिवरामकृष्णन्

ASSISTANT ENGINEER

KARAIKAL

To

A Arunya

E.G.S Pillay Engineering College

Nagapattinam - 611002

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that A Arunya (E18ECR009), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai 600 015.

Elseif Technologies Private Limited
Old No 25, New No 73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

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u·n·i·q technologies

ISO 9001:2015 CERTIFIED

CERTIFICATE OF MERIT

This is to certify that _ATCHAYA S_ (Reg No. _FIRECR2010_)has

successfully completed the internship in _EMBEDDED_ Application Development in our

concern from _20|08|2021_ to _23|09|2021_ .

During the internship period, the performance of the intern was found to be _Good_

Program Coordinator

HR Head

COMPLETION CERTIFICATE:

Digitally Vibed
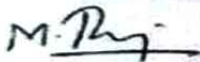
Date - 8.3.2021

TO WHOM IT MAY CONCERN

This is to certify that **BOOPATHY P** studying B.E Electronics and Communication Engineering in EGS Pillay Engineering College, Nagapattinam has successfully completed his/her one month Virtual Internship from 1.2.2021 to 27.2.2021 at Digitally Vibed

All the best for your future Endeavors

PAVITHRA MURALI

Director, Digitally vibed

Phone
8668019205

Email
bee@digitallyvibed.com

Address
Redhills, Chennai - 600052

5. CERTIFICATE

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
ALL INDIA RADIO
KARAIKAL - 609 605
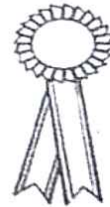
Awards this certificate to........ M. CHANDRU IV - YEAR

B.E (ECE) OF EGS PILLAY ENGINEERING

COLLEGE , NAGAPATTINAM

for having successfully completed the In plant Training on F.M Broadcast Equipments

From 07.12.21 to 21.12.21 at All India Radio, Karaikal

Place : Karaikal

Date : 21.12.21

Head of Engineering
V. SIVARAMAKRISHNAN
A. भेजरामकृष्णन
ASSISTANT ENGINEER

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs......GNANAPRAKASAM . S......................has successfully

undergone workshop & internship .EMBEDDED. SYSTEM. USING. PYTHON

from...27.12.21... to ...15.1.22....in our organization.

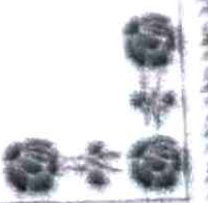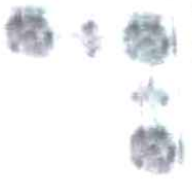**TECHNICAL DIRECTOR**

PROGRAM COORDINATOR

REFERENCE ID: INV-001596

DATE: 03rd SEPT 2021

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **HARINI G** (Reg. No: **E18ECR016** undergoing her **BE (ECE)** from EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS) has completed her internship at this **UNIQ TECHNOLOGIES** for a period of 30 days from **2nd AUGUST 2021** to **2nd SEPTEMBER 2021**. She successfully completed internship in **MATLAB** domain.

PROJECT TITLE: FIRE DETECTION IN INFRARED VIDEO SURVEILLANCE

BASED ON DEEP LEARNING

It is observed that she is sincere and prompt in discharging the duties assigned to her from time to time.

On behalf of our organization, we wish her all the best in all her future endeavors.

Thanks & Regards,

(HR Head)

#1 Shifa Arcade, Bharathi Nagar 1st Street, North Usman Road, T-Nagar, Chennai – 600 017
044 - 42124943 | 95000 88927 | 96001 14466 | info@uniqtechnologies.co.in
www.uniqtechnologies.co.in

5. CERTIFICATE

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL - 609 605

Awards this certificate to Shri IYAPPAN. A Bachelor of Engineering (Electronic and Communication Engg) IVth Year of E.G.S Pillay Engineering College, Nagapattinam. T.N.

for having successfully completed the In plant Training on FM Broadcast Equipments

From 7/12/21 to 21/12/21 at All India Radio. Karaikal

Head of Engineering

V. SIVARAMAKRISHNAN
A. அசிஸ்டண்
ASSISTANT ENGINEER
KARAIKAL

Place   Karaikal

Date   21/12/21

14

PRASAR BHARATI

ALL INDIA RADIO

Awards this certificate to _ _ JANANI _ IN _ YEAR _ BE
ECE OF E G S PILLAY ENGINEERING COLLEGE
NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments
from 07.12.21 to 21.12.21 at All India Radio, Karaikal

Place Karaikal
Date 21.12.21

Head of Engineering
SIVARAMAKRISHNAN
ASSISTANT ENGINEER

5. CERTIFICATE

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
ALL INDIA RADIO
KARAIKAL - 609 605

Awards this certificate to .... K. KEERTHANA   IV -YEAR
.... B.E (ECE) OF E.G.S PILLAY ENGINEERING
.... COLLEGE, NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments

From 07.12.21 to 21.12.21   at All India Radio, Karaikal.

Place : Karaikal

Date : 21.12.21

Head of Engineering
V. SIVARAMAKRISHNAN
ASSISTANT ENGINEER

Activate

REFERENCE ID: INV-0015987

DATE: 03rd SEPT 2021

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **LAVANYA K (Reg. No: E18ECR024)**, undergoing her **BE (ECE)** from **EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)** has completed her internship at this **UNIQ TECHNOLOGIES** for a period of 30 days from **2nd AUGUST 2021** to **2nd SEPTEMBER 2021**. She successfully completed internship in **MATLAB domain**.

PROJECT TITLE: FIRE DETECTION IN INFRARED VIDEO SURVEILLANCE

BASED ON DEEP LEARNING

It is observed that she is sincere and prompt in discharging the duties assigned to her from time to time.

On behalf of our organization, we wish her all the best in all her future endeavors.

Thanks & Regards,

(HR Head)

u·n·i·q technologies

ISO 9001:8018 CERTIFIED

CERTIFICATE OF MERIT

This is to certify that ___LINGESHWARI V___ (Reg No. ___EI8 ECR025___) has successfully completed the internship in ___EMBEDDED___ Application Development in our concern from ___06.06.2021___ to ___03.07.2021___.

During the internship period, the performance of the intern was found to be ___Good___

Program Coordinator   HR Head

3i TECHSO
Technologies

info@itechso.com
044 - 4356 6361
+91 96627 55799

Certificate of Completion

This is to certify that

Mr. Ms. Mrs. MANICKASARATHAM .M. has successfully

undergone workshop & internship EMBEDDED SYSTEM USING PYTHON

from 27.12.21 to 15.1.22 in our organization

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

19

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KODAIKAL 609 605

Awarded this certificate to

A MANIRATHAM IX YEAR

ENGINEERING

for having successfully completed the In plant Training on EM Broadcast Equipments

at All India Radio, Kavakent

Head of Engineering

To

A. Monika

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that A. Monika (E18ECR031), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD,
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Elseif Technologies Private Limited
Old No.25, New No.73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

21

PRO

C.No: _DELFY1..._

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr./Ms. _MUGHESH R (FIRECRC323)_

Has Successfully Completed _INTERNSHIP_ Training Program

in " _PYTHON_ '

During _15.12.2021_ to _31.12.2021_

Congratulations on a job well done!

Awarded this

Director

Technical Head

ELSEIF TECHNOLOGIES

27 December 2021

... Nandhini

... Pillay Engineering College.

Nagapattinam - 611002.

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that R. Nandhini (E18ECR033), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
Old No. 25L, New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Old No. 25 New No 73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

CERTIFICATE :

27 December 2021

To

V. Niraimathi

E.G.S. Pillay Engineering College.

Nagapattinam - 611002.

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that V. Niraimathi (E18ECR034), Major in Electronics and Communications Engineering, student of E.G.S. Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director

ELSEIF TECHNOLOGIES PVT LTD
Old No. 25, New No. 73, 4th Floor,
Veterinary Road, Little Mount,
Saidapet, Chennai 600 015

24

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr. Ms./ Mrs. NIVASHINI. R .... has successfully

undergone workshop & internship EMBEDDED SYSTEM USING PYTHON

from 27.12.21 to 15.1.22 in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs........DIVYA. R...has successfully

undergone workshop & internship .EMBEDDED. SYSTEM. USING. PYTHON

from...27.12.21.... to ...15.1.22.....in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

To

K. Poongothai

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that K. Poongothai (E18ECR037), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
Old No. 25L New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai 600 015.

Elseif Technologies Private Limited
Old No 25, New No 73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

27

To

T. Pradeep

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that T. Pradeep (E18ECR038), Major in Electronics and Communications Engineenng student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of his internship program with Elseif Technologies Private Limited, he had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in his life and career.

For Elseif Technologies Pvt. Ltd.

Director

ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai 600 015.

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr. Ms. Mrs....PRIYADHARSHINI..B.........................has successfully

undergone workshop & internship EMBEDDED..SYSTEM..USING...P.HYTHON

from...27:12:21.... to ...15:1:22...in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd,
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

3i TECHSO Technologies

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs....RIFAYUDEEN..N........................has successfully

undergone workshop & internship .EMBEDDED..SYSTEM..USING..PYTHON

from..23.12.21.... to ..15..1..22.....in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd,
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

Digitally Vibed

Date - 8.3.2021

<u>TO WHOM IT MAY CONCERN</u>

This is to certify that _____ **SEETHALAKSHMI. L** _____
studying B.E Electronics and Communication Engineering in
EGS Pillay Engineering College, Nagapattinam has
successfully completed his/her one month Virtual Internship
from 1.2.2021 to 27.2.2021 at Digitally Vibed

All the best for your future Endeavors

PAVITHRA MURALI

Director, Digitally vibed

Phone
8668019205

Email
bce@digitallyvibed.com

Address
Redhills, Chennai - 600052

3i TECHSO
Technologies

info@techso.com
044 - 4350 6363
+91 96627 55799

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs. SHAFRIN BEEVI S has successfully

undergone workshop & internship EMBEDDED SYSTEM USING PYTHON

from 27.12.21 to 12.1.22 in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd,
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

To

S. Shalini

E G S Pillay Engineering College,

Nagapattinam 611002.

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that S. Shalini (E18ECR050), Major in Electronics and Communications Engineering student of E G S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director
ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Elseif Technologies Private Limited
Old No.25, New No.73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

3i TECHSO Technologies

Certificate of Completion

This is to certify that

Mr./ Ms./ Mrs......SHANMUGARAJ....T...........................has successfully

undergone workshop & internship .EMBEDDED..SYSTEM..USING..PYTHON

from...27..12..21... to ....15..1..22...in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd,
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL - 609 605
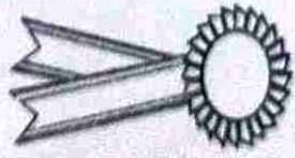
Awards this certificate to...... P. SIVANANDHAMOORTHY

IV - YEAR   B.E (ECE) OF E.G.S PILLAY

ENGINEERING   COLLEGE , NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments

From 07.12.21 to 21.12.21 at All India Radio, Karaikal

Place   Karaikal

Date   21.12.21

Head of Engineering

V.SIVARAMAKRISHNAN
ASSISTANT ENGINEER

35

3i TECHSO
Technologies
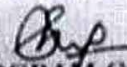
Certificate of Completion

This is to certify that

Mr. Ms. Mrs.....SIVASUKITHA...S..........................has successfully

undergone workshop & internship ..EMBEDDED..SYSTEM..USING...PYTHON

from..27.12.21..... to ..15..1..22.....in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

u·n·i·q technologies

ISO 9001:2015 CERTIFIED

CERTIFICATE OF MERIT

This is to certify that SUDHARSHAN.A (Reg No. E18ECR055) has successfully completed the internship in MATLAB Application Development in our concern from 30/08/2021 to 03/09/2021.

During the internship period, the performance of the intern was found to be Good.

INV-000842

Program Coordinator

HR Head

37

C.No: _DECPY1004_

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr./Ms. _SURESHPATAN R (EI8ECR056)_

Has Successfully Completed _____INTERNSHIP_____ **Training Program**

in " _____PYTHON_____ "

During _15.12.2021 to 31.12.2021_

Congratulations on a job well done!

Awarded this

Director

Technical Head

u·n·i·q technologies

ISO 9001:2015 CERTIFIED

CERTIFICATE OF MERIT

This is to certify that ___THILVAKESAN G___ (Reg No. ___FIT FOR 059___) has

successfully completed the internship in ___EMBEDDED___ Application Development in our

concern from ___30/08/2021___ to ___03/09/2021___ .

During the internship period, the performance of the intern was found to be ___GOOD___ .

Program Coordinator

HR Head

PCAP: Programming Essentials in Python

Statement of Achievement

Presented to

Vasundara:

Name

During the Cisco Networking Academy® self-paced course the student has studied the following Skills

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools and the runtime environment
- the syntax and semantics of the Python language
- the fundamentals of object-oriented programming and the way they are adopted in Python
- the means by which to resolve typical implementation problems
- the writing of Python programs using standard language infrastructure
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library function in Python 3

Maciej Wichary
VP OpenEDG Python Institute

27 Oct 2021

Date

CERTIFICATE:

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr./Ms. VIJAYAKUMAR B (E18EC80502)

Has Successfully Completed ___INTERNSHIP___ Training Program
in " ___PYTHON___ "

During 15.05.2021 to 31.05.2021

Congratulations on a job well done!

Awarded this

Director

Technical Head

C.No: DECPY1002

SD PRO SOLUTIONS

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr./Ms. VIJAYAKUMAR K (E18EC061)

Has Successfully Completed INTERNSHIP Training Program

in " PYTHON "

During 15.12.2021 to 31.12.2021

Congratulations on a job well done!

Awarded this

SD Pro Solutions Trichy-2.

N. Priya
Director

Technical Head

REFERENCE ID: INV-001598

DATE: 03rd SEPT 2021

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **VINOTHINI G (Reg. No: E18ECR062)** undergoing her **BE (ECE)** from **EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)** has completed her internship at this **UNIQ TECHNOLOGIES** for a period of 30 days from **2nd AUGUST 2021 to 2nd SEPTEMBER 2021**. She successfully completed internship in **MATLAB domain**.

PROJECT TITLE: FIRE DETECTION IN INFRARED VIDEO SURVEILLANCE

BASED ON DEEP LEARNING

It is observed that she is sincere and prompt in discharging the duties assigned to her from time to time.

On behalf of our organization, we wish her all the best in all her future endeavors.

Thanks & Regards,

(HR Head)

CERTIFICATE OF MERIT

This is to certify that ___ABINAYA. T___ (Reg no E1821 203) has

successfully completed the internship in ___MATLAB___ Application Development in our

concern from ___20|08|2021___ to ___03|09|2021___.

During the internship period, the performance of the intern was found to be ___Good___.

Program Coordinator

44

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL - 609 605

Awards this certificate to......K. ABIRAMI IV - YEAR
B.E (ECE) OF E.G.S PILLAY ENGINEERING
COLLEGE, NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments
from 07.12.21 to 21.12.21 at All India Radio. Karaikal

Place : Karaikal
Date : 21.12.21

Head of Engineering
V. SIVARAMAKRISHNAN

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL 609 605

Awards this certificate to R AHILA   IV - YEAR

B.I (ICE) OF E.G.S PILLAY ENGINEERING

COLLEGE, NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments

from 07·12·21 to 21·12·21 at All India Radio, Karaikal

Place Karaikal

Date 21·12·21

Head of Engineering

V. SIVARAMAKRISHNAN

A அபியா

ASSISTANT ENGINEER

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL · 609 605

Awards this certificate to.... T. ANANDHARAJ IV · YEAR
B I (ECE) OF E·G·S PILLAY ENGINEERING
COLLEGE, NAGAPATTINAM.

for having successfully completed the In plant Training on FM Broadcast Equipments
from 07·12·21 to 21·12·21 at All India Radio, Karaikal.

Place Karaikal

Date 21·12·21

Head of Engineering
V. SIVARAMAKRISHNAN
& ഇ
ASSISTANT ENGINEER

27 December 2021

To

E. Aravindh

E.G.S Pillay Engineering College,

Nagapattinam - 611002,

Tamil Nadu

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that E. Aravindh (E18ECL306), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of his internship program with Elseif Technologies Private Limited, he had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish every success in his life and career.

For Elseif Technologies Pvt. Ltd.

Director

ELSEIF TECHNOLOGIES PVT. LTD.
(Old No. 25), New No. 73, 4th Floor,
Velachery Road, Little Mount,
Saidapet, Chennai-600 015.

Elseif Technologies Private Limited
Old No.25, New No.73, 4th Floor, Velachery Road, Little Mount, Saidapet, Chennai - 600015

48

Karthika

E.G.S Pillay Engineering College.

Nagapattinam - 611002

Tamil Nadu.

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that P. Karthika (E18ECL308), Major in Electronics and Communications Engineering, student of E.G.S Pillay Engineering College Nagapattinam - 611002, has successfully completed 15 days internship with Elseif Technologies Private Limited, from 06 DEC 2021 to 24 DEC 2021. During the period of her internship program with Elseif Technologies Private Limited, she had been exposed to different process and was found diligent, hardworking and inquisitive

We wish every success in her life and career.

For Elseif Technologies Pvt. Ltd.

Director

ELSEIF TECHNOLOGIES PVT. LTD.
Old No. 210, New No. 73, 4th Floor,
Velachery Road, Little Mount,
Sydapet, Chennai-600 015.

Date - 8.3.2021

TO WHOM IT MAY CONCERN

This is to certify that   R. MUTHU

studying B.E Electronics and Communication Engineering in EGS Pillay Engineering College, Nagapattinam has successfully completed his/her one month Virtual Internship from 1.2.2021 to 27.2.2021 at Digitally Vibed

All the best for your future Endeavors

[signature]

PAVITHRA MURALI

Director, Digitally vibed

Phone
8148565005

Email
Sana@digitallyvibed.com

Address
Redhills, Chennai-600052

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
ALL INDIA RADIO
KARAIKAL - 609 605
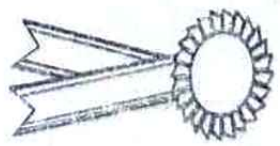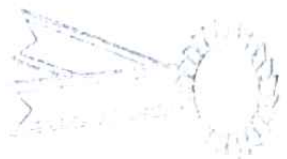
Awards this certificate to .... S. RAMESH IV . YEAR

B·E (ECE) OF E·G·S PILLAY ENGINEERING

COLLEGE , NAGAPATTINAM

....

for having successfully completed the In plant Training on FM Broadcast Equipments

From 07·12·21 to 21·12·21 at All India Radio, Karaikal

Place , Karaikal

Date : 21·12·21

Head of Engineering

V·SIVARAMAKRISHNAN
ASSISTANT ENGINEER

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)
ALL INDIA RADIO

KARAIKAL - 609 605

Awards this certificate to...... K. REVATHI IV - YEAR B.E

(ECE) OF E.G.S PILLAY ENGINEERING COLLEGE,

NAGAPATTINAM

for having successfully completed the In plant Training on FM Broadcast Equipments

from 07.12.21 to 21.12.21 at All India Radio, Karaikal.

Place : Karaikal

Date : 21.12.21

Head of Engineering

V SIVARAMAKRISHNAN

ASSISTANT ENGINEER

PRASAR BHARATI

(INDIA'S PUBLIC SERVICE BROADCASTER)

ALL INDIA RADIO

KARAIKAL - 609 605
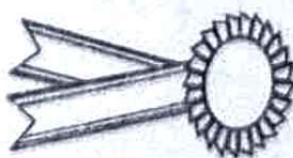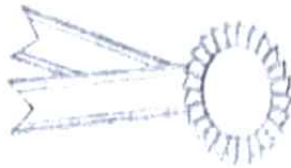
Awards this certificate to ...... S. SELVAGANAPATHY IV -YEAR

B.E (ECE) OF E.G.S PILLAY ENGINEERING

COLLEGE , NAGAPATTINAM. ....

for having successfully completed the In plant training on FM Broadcast Equipments

From 07.12.21 to 21.12.21 at All India Radio, Karaikal.

Head of Engineering
V. SIVARAMAKRISHNAN
ASSISTANT ENGINEER

Place : Karaikal
Date : 21.12.21

53

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr Ms Mrs. SYER ALI S................................has successfully

undergone workshop & internship EMBEDDED SYSTEM USING PYTHON

from: 27.12.21.... to .12.1.22....in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3iTechso Technologies Pvt.Ltd,
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

54

3i TECHSO
Technologies

Certificate of Completion

This is to certify that

Mr. Ms. Mrs......THARIQ...S.............................has successfully

undergone workshop & internship .EMBEDDED...SYSTEM...USING...PYTHON

from .27..12..21... to ....15...1..22...in our organization.

TECHNICAL DIRECTOR

PROGRAM COORDINATOR

3i Techso Technologies Pvt.Ltd.
No.74, 4th floor, 5th avenue, V-Block, Anna Nagar, Chennai-40

55

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report titled, "**ANALYSIS OF SOLAR PANEL PARAMETERS USING INTERNET OF THINGS**" is the bonafide work of **ABIRAMI K** (Reg.No.E18ECL303), **AHILA R** (Reg.No.E18ECL304), **NIVETHA V** (Reg.No.E18ECL310) and **REVATHI K** (Reg. No. E18ECL315), who carried out the project work under my supervision.

Mr. S. SENTHILKUMAR M.Tech.,
(Ph.D).,
Assistant Professor
Dept. of Electronics and Communication
Engineering
E.G.S. Pillay Engineering College
Nagapattinam-611 002

Dr.B. PADMANABAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Professor
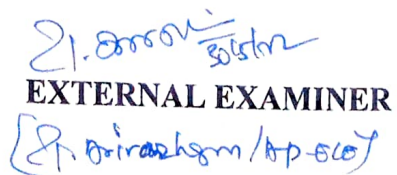Dept. of Electronics and Communication
Engineering
E.G.S. Pillay Engineering College
Nagapattinam-611 002
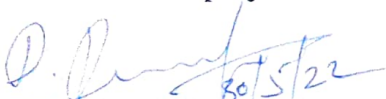
Submitted for the project viva voice examination held on 30/5/22

INTERNAL EXAMINER

EXTERNAL   EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report titled "SMART MEDICINE ASSISTANT USING ARDUINO" is the bonafide work of **B.AARTHI (E18ECR001) R.A.ABIRAMI (E18ECR004) B.PRIYADHARSHINI (E18ECR039) L.SEETHALAKSHMI (E18ECR046)** who carried out the project work under my supervision.

SIGNATURE
Dr. B. PADMANABAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Professor
Dept. of ECE
E.G.S.Pillay Engineering College
Nagapattinam-611 002

SIGNATURE
S.SENTHILKUMAR M.Tech.,(Ph.D).,
Assistant Professor
Dept. of ECE
E.G.S.Pillay Engineering College
Nagapattinam-611 002

Submitted for the Project viva voce examination held on _30/5/22_
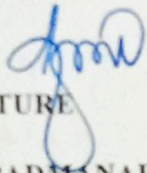
INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report titled **"WASTE MANAGEMENT IMPROVEMENT IN CITIES USING IOT"** is the bonafide work of **S.AKASH (E18ECR005), R.AMARESH (E18ECR006), S.MANIKANDAN (E18ECR027), B.VIJAYAKUMAR (E18ECR060),** who carried out the project work under my supervision.

SIGNATURE

Dr.B. PADMANABAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Professor
Dept. of ECE
E.G.S. Pillay Engineering College
Nagapattinam-611 002

SIGNATURE

S.JIM HAWKINSON M.E.,(Ph.D.,)
SUPERVISOR
Assistant Professor
Dept. of ECE
E.G.S. Pillay Engineering College
Nagapattinam-611 002

Submitted for the Project viva voce examination held on 30.5.2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY, CHENNAI

BONAFIDE CERTIFICATE

Certified that this project report titled **"REVOLVING GATE POWER GENERATION USING AXIAL GENERATORS"** is the bonafide work of **U.ABINASH, T.ANATHARAJ, E.ARAVINTH, B.KARAN** 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 thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Dr.B.PADMANABAN,M.E.,Ph.D

Head of the Department

Department of ECE

E.G.S. Pillay Engineering College

Nagapattinam.

Dr.A.SUNDAR RAJ, M.E.,Ph.D

Associate Professor

Department of ECE

E.G.S. Pillay Engineering College

Nagapattinam.

Submitted for the Viva voce Examination held on 27 - 12 - 2021

INTERNALEXAMINER   EXTERNALEXAMINER

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report titled "**MULTIFLEXIBILITY RENEWABLE ENERGY GENERATION BY DIFFERENT SOURCE   ON   DEMAND**" is the bonafide work of **G.JANANI (E18ECR019), K.KEERTHANA (E18ECR022), K.LAVANYA (E18ECR024), A.MONIKA (E18ECRO31)** who carried out the work under my supervision.
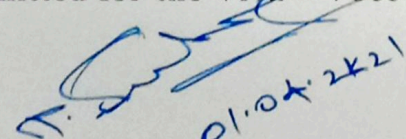
SIGNATURE

Dr.B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam-611002.

SIGNATURE

Dr.A.SUNDAR RAJ, M.E.,Ph.D.,

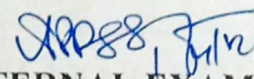**SUPERVISOR**

Associate Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam-611002.

Submitted for the Viva voce Examination held on ---30/05/2022---

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

BONAFIDE CERTIFICATE

Certified that this project report titled "**IOT BASED TIME TABLE MANAGEMENT SYSTEM USING RASPBERRY PI & VNC SERVER**" is the bonafide work of **T.MOHAMED SHAGUL HAMEED (E18ECR030), I.SAAJIDHULLAH (E18ECR042), R.SANTHOSH (E18ECR043), S.THARIQ (E18ECL321)**, who carried out the project work under my supervision.

SIGNATURE
Dr.B.PADMANABAN M.E., Ph.D.,
HEAD OF THE DEPARTMENT
Associate Professor
Dept. of ECE
E.G.S.Pillay Engineering College
Nagapattinam-611 002

SIGNATURE
Dr.M.IRSHAD AHAMED M.TECH., Ph.D.,
SUPERVISOR
Associate Professor
Dept. of ECE
E.G.S.Pillay Engineering College
Nagapattinam-611 002

Submitted for the Project viva voce examination held on __30-05-2022__
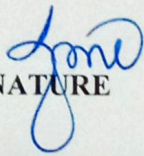
INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certificated that this project report "SEA LOCALIZATION AND BORDER ALERT SYSTEM FOR FISHERMAN" is the bonafide work of "LASHMI. S (820815106042), KIRUTHIGA. R (820815106041), MEHAJBIN. R (820815106049), DEVADHARSINI. R (820815106017)" who carried out the project work under my supervision.

SIGNATURE
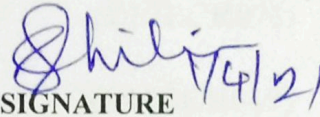
Dr.B. PADMANABAN,M.E.,Ph.D

HEAD OF THE DEPARTMENT

Department of ECE

E.G.S. Pillay Engineering

College, Nagapattinam.

SIGNATURE

Mrs.S. CHITRA,M.E.,(Ph.D),

SUPERVISOR

Assistant Professor

Department of ECE

E.G.S. Pillay Engineering

College, Nagapattinam.

Submitted for the project viva voce examination held on ......27-3-19......

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY:CHENNAI 600 025
BONAFIDE CERTIFICATE

Certified that this project report "**SECRETS HANDLING DEVICES USING VBOT AND NANOBOT SENSORS**" is the bonafide work of "**RAJESH   P (820815106076), VANDHIYADEVAN   M (820815106107), VIGNESHWARAN K (820815106108)**" who carried out the project work under my supervision.

SIGNATURE

Dr.B.PADMANABAN, M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S .Pillay Engineering College,

Nagapattinam-611002

SIGNATURE

Ms.D.MUTHULAKSHMI,M.E.,
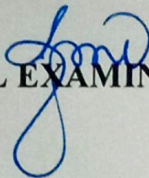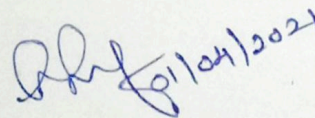
 SUPERVISOR

Assistant professor

Department of ECE

E.G.S. Pillay Engineering College,

Nagapattinam-611002

Submitted for the Project viva voce examination held on 28.3.2019
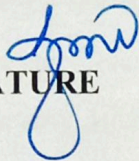
INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report titled **"MULTIFLEXIBILITY RENEWABLE ENERGY GENERATION BY DIFFERENT SOURCE ON DEMAND"** is the bonafide work of **G.JANANI (E18ECR019), K.KEERTHANA (E18ECR022), K.LAVANYA (E18ECR024), A.MONIKA (E18ECRO31)** who carried out the work under my supervision.

SIGNATURE

Dr.B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam-611002.

SIGNATURE

Dr.A.SUNDAR RAJ, M.E.,Ph.D.,

SUPERVISOR

Associate Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam-611002.

Submitted for the Viva voce Examination held on --30/05/2022---

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "AN RFID BASED ARDUINO CONTROLLED SMART SPORT VENDING MACHINE" is the bonafide work of HAJA RIYASKHAN A (Reg.No.E17ECR038), SUDHANKUMAR (Reg.No.E17ECR109), HAMEED SULTHAN A (Reg. No. E17ECR039) and GOWTHAM M (Reg. No E17ECR036) who carried out the project work under my supervision.
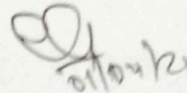
SIGNATURE

Dr. B. PADMANABAN, M.E., Ph.D
Professor & Head

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

(Autonomous)

SIGNATURE

S.SENTHILKUMAR, M.Tech.,(Ph.D)
Assistant Professor
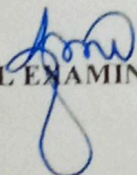
Dept. of Electronics and

Communication Engineering
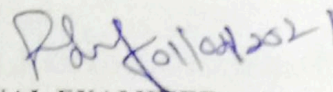
E.G.S. Pillay Engineering College

(Autonomous) .

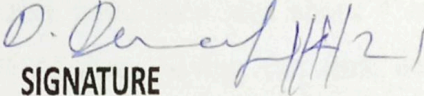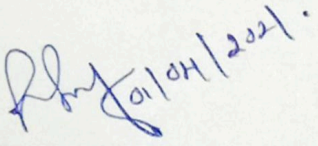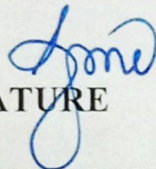Submitted for the project viva voce examination held on: 01·04·2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii
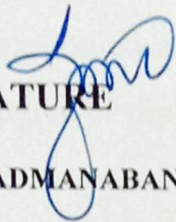
BONAFIDE CERTIFICATE

Certified that this project report " **DUAL DIGITAL POWER SUPPLY AND FUNCTION GENERATOR WITH AUTO CUT OFF**"is the bonafide work of "**M.MAHISHANTHINI**(Reg.No.E17ECR059),**R.MANJIVIFASHINI** (Reg.No.E17ECR062),**T.NAJMINA**(Reg.No.E17ECR072),**P.PRADEEPA**(Reg.No. E17ECR084)" who carried out the project work under my supervision.
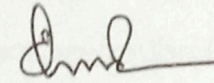
SIGNATURE

Dr. B.PADMANABAN,M.E.,Ph.D

Professor & Head

Departmemnt of ECE

E.G.S. Pillay Engineering College

(Autonomous)

Nagapattinam-611002

SIGNATURE

Mrs.V.ELAVARASI,M.E.,(Ph.D)

Assistant Professor

Departmemnt of ECE

E.G.S. Pillay Engineering College

(Autonomous)

Nagapattinam-611002

Submitted for the Viva – Voce Examination held on 01/04/2021

01.04.2k21

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "IMAGE PROCESSING BASED VIDEO FORGED FRAME DETECTION" is the bonafide work of "C.LALU (E17ECR058), M.MOHAMED JAWITH (E17ECR066), R.RAJESH (E17ECR089)" who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN,M.E.,Ph.D.,

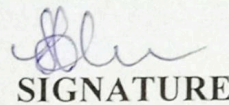**HEAD OF THE DEPARTMENT**

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE
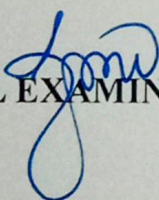
S.SENTHILKUMAR,M.Tech.,(Ph.D)

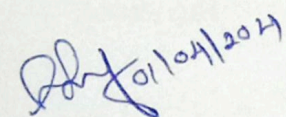**SUPERVISOR**

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 01.04.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report **"SECURE REVERSIBLE IMAGE DATA HIDING OVER ENCRYPTED DOMAIN VIA KEY MODULATION"** is the bonafide work of **"S.ABINAYA (E17ECR003), P.DIVYA (E17ECR029), M.MAYAVATHI (E17ECR064), S.RANJITHA (E17ECR092)"** who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

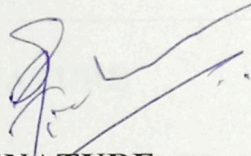**HEAD OF THE DEPARTMENT**

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE
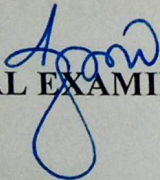
Mr.L.RAMACHANDRAN,M.Tech.,(Ph.D)

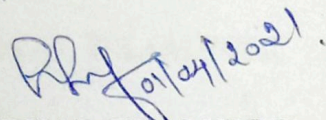**SUPERVISOR**

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

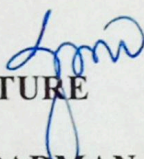Submitted for the Project viva voce examination held on 01/04/21

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "SOLAR POWERED WATER SURFACE GARBAGE COLLECTER USING ARDUINO" is the bonafide work of **P.MUTHUKUMARAN(E17ECR71), B.JAYASURIYA(E17ECR049), J.MANIKANDAN(E17ECR060), M.GNANAVEL(E17ECR035)"** who carried out the project work under my supervision.

SIGNATURE

SIGNATURE 1/4/21

Dr.B.PADMANABAN, M.E.,Ph.D
HEAD OF THE DEPARTMENT
Professor
Department of ECE
E.G.S.Pillay Engineering College
Nagapattinam–611002

Mrs.S.CHITRA,M.E.,(Ph.D)
SUPERVISOR
Assistant Professor
Department of ECE
E.G.S.Pillay Engineering College
Nagapattinam - 611002

Submitted for the project viva voce examination held on 01./.04./.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**PASSIVE INFRARED RADIATION BASED ON SECURITY SYSTEM USING ARDUINO**" is the bonafide work of "PARTHIBAN.R (E17ECR079), VEERAMANI.N (E17ECR119),and UMASANKAR.P (E17ECL306)" who carried out the project work under my Supervision.
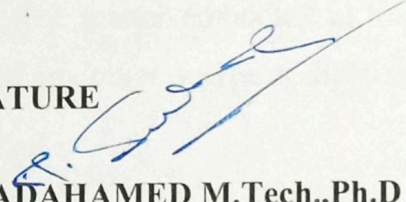
SIGNATURE

SIGNATURE

Dr.B.PADMANABAN M.E.,Ph.D

Dr.M. IRSHADAHAMED M.Tech.,Ph.D

Head of the Department

 Project Supervisor

Department of Electronics and

 Assitant Professor

Communication Engineering,

 Department of Electronics and

E.G.S.Pillay Engineering College

 Communication Engineering

(Autonomous),   ,

 E.G.S.Pillay Engineering College

Nagapattinam-611002.

 (Autonomous),

 Nagapattinam-611002.

Submitted to the Project viva voce examination held on 01 – 04 – 2021
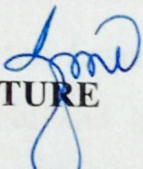
INTERNAL EXAMINER   **EXTERNAL EXAMINER**

i

ANNA UNIVERSITY:CHENNAI 600025
BONAFIDE CERTIFICATE

Certified that this project report **"PROTECTING FISHERMAN'S WHILE CROSSING SEA BORDERS USING IOT"** is the bonafide work of "KEERTHIKA.A (E17ECR055), SANTHI.M (E17ECR094),AGALYA.T (E17ECL301), KEERTHANA.G(E17ECL304)" who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

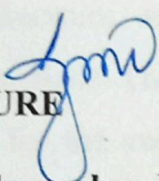Dr.D.DEVARAJAN.,M.E.,(Ph.D)

SUPERVISOR

Assistant professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voice examination held on___ 1.4.21.

INTERNAL EXAMINER

EXTERNAL EXAMINER

BONAFIDE CERTIFICATE

Certified that this project report **"ADVANCED DIGITAL IC TRAINER KIT"**is the bonafide work of " **V.SRIRAM (E17ECR105), S.SUBASH (E17ECR106), C.SIVA(E17ECR101), K.THIAGARAJAN DINESH (E17ECR116)"** who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

College Nagapattinam.

SIGNATURE

Ms.S.AADHIRAI,M.E.,

SUPERVISOR

Assistant professor

Department of ECE

E.G.S.Pillay Engineering

Nagapattinam.

Submitted for the Project viva voice examination held on ___1.4.21.___

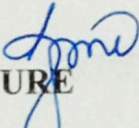**INTERNAL EXAMINER**

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "AN IOT BASED VEHICLE ACCIDENT DETECTION AND CLASSIFICATION SYSTEM USING SENSOR FUSION "is the bonafide work of "A.HEAMNATH (E17ECR043) ,M.RAM MOHAN(E17ECR090), **M.JAYA SURYA (E17ECR050), A.MATHIVANAN (E17ECR063)"** who carried out the project work under my supervision.

SIGNATURE

SIGNATURE

Dr.B.PADMANABAN,M.E.,Ph.D

Mr.S.JIMHAWKINSON,M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

SUPERVISOR

Professor

Assistant Professor

Department of ECE

Department of ECE

E.G.S. Pillay Engineering College

E.G.S. Pillay Engineering College

Nagapattinam

Nagapattinam

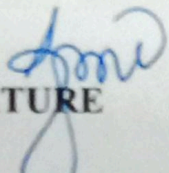Submitted for the poject viva voce examination held on 01/04/2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"AUTOMATIC THIEF DETECTION WITH SPECIFIED TIME USING IOT"** is the bonafide work of **JANANI K (Reg.No.E17ECR046)**, **SHOBIKA P (Reg.No.E17ECR099)**, and **SOUNDHARYA G (Reg. No. E17ECR104)** who carried out the project work under my supervision.

SIGNATURE

Dr. B. PADMANABAN, M.E., Ph.D
Professor & Head

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

(Autonomous)

Nagapattinam-611002

SIGNATURE

S.SENTHILKUMAR, M.Tech.,(Ph.D)
Assistant Professor

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E.G.S. Pillay Engineering College

(Autonomous)

Nagapattinam-611002

Submitted for the project viva voice examination held on: 01.04.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"AUTOMATIC EFFICIENT SEATING ARRANGEMENT FOR EXAM"**is the bonafide work of **"A.AHAMED NACHIYAR** (Reg.No.E17ECR008), S. **FAHMIDHA FATHIN** (Reg.No.E17ECR031, , **K.ISHWARYA** (Reg.No.E17ECRO45)" who carried out the project work under my supervision.

SIGNATURE

Dr.B. PADMANABAN M.E.,Ph.D.

Professor & Head

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

SIGNATURE

Mr. M.NUTHAL SRINIVASAN
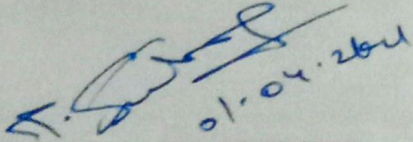   **M.E.,(Ph.D)**
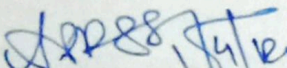
Assistant Professor

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

Examination held on: 01.04.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"Water Salinity Checker And Display Using GSM"**is the bonafide work of **"Gayathiri S**(Reg.No.E17ECR033), **Nirmala Devi R** (Reg.No.E17ECR076), **Ranjitha R** (Reg.No.E17ECR091),**Sabitha D**(Reg.No. E17ECR093)**"** who carried out the project work under my supervision.

SIGNATURE

Dr.B. Padmanaban M.E.,Ph.D.

Professor & Head

Department of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

SIGNATURE

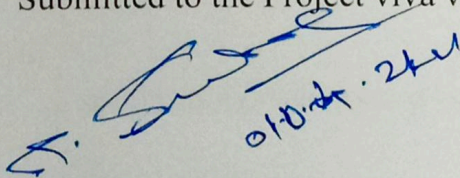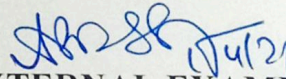**Mr. M.NUTHAL SRINIVASAN**
M.E.,(Ph.D)

Assistant Professor

Department of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

Examination held on: 1. 4. 21.

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii
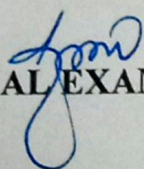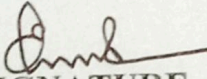
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"MONITORING OF SOLAR PANEL PARAMETERS USING IOT"** is the bonafide work of **"GANGADEVI K (E17ECR032), GEETHA S (E17ECR034), MUKILA N (E17ECR070), PADMA PRIYA S (E17ECR078)"** who carried out the project work under my supervision.
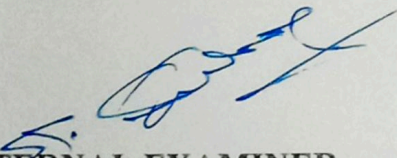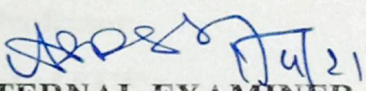
SIGNATURE

Dr. B. PADMANABAN.,M.E,Ph.D.,

HEAD OF THE DEPARTMENT

DEPARTMENT OF ECE,

E.G.S.PILLAY ENGINEERING

COLLEGE (AUTONOMOUS),

NAGAPATTINAM.

SIGNATURE

V.ELAVARASI.,M.E.,Ph.D.,

SUPERVISOR

DEPARTMENT OF ECE,

E.G.S.PILLAY ENGINEERING

COLLEGE (AUTONOMOUS),

NAGAPATTINAM.

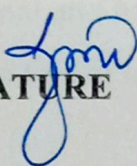Submitted for the Project viva voce examination held on ___1· 4·21·___
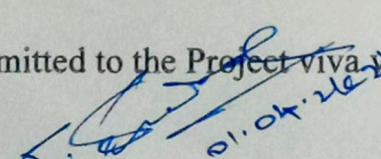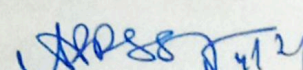
INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"AUTOMATIC EFFICIENT SEATING ARRANGEMENT FOR EXAM"**is the bonafide work of **"A.AHAMED NACHIYAR** (Reg.No.E17ECR008), **S. FAHMIDHA FATHIN** (Reg.No.E17ECR031, , **K.ISHWARYA** (Reg.No.E17ECRO45)" who carried out the project work under my supervision.

SIGNATURE

Dr.B. PADMANABAN M.E.,Ph.D.

Professor & Head

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

SIGNATURE

Mr. M.NUTHAL SRINIVASAN
M.E.,(Ph.D)

Assistant Professor

Dept. of Electronics and

Communication Engineering

E.G.S. Pillay Engineering College

Nagapattinam-611002

Examination held on: 01.04.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

BONAFIDE CERTIFICATE

Certified that this project report "FOOT STEP POWER GENERATION WITH RFID BASED MOBILE CHARGING" is the bonafied work of "ABINAYA A (E17ECR004), AGALYA A (E17ECR007), DEEPIKA G (E17ECR24) and DEEPIKA S (E17ECR025) who carried out the project work under my Supervision.

SIGNATURE

SIGNATURE

Dr.B.PADMANABAN M.E.,(Ph.D)

Mrs.S.CHITRA M.E.,(Ph.D)

HEAD OF THE DEPARTMENT

PROJECT SUPERVISOR

Department of Electronic and

Department of electronic and

Communication engineering,

communication engineering,

E.G.S. Pillay engineering college,

E.G.S. Pillay engineering college,

Nagapattinam-600 0112

nagapattinam-600 0112

Submitted to the Project viva voce examination held on <u>01/04/2021</u>

INTERNAL EXAMINER

EXTERNAL EXAMINER

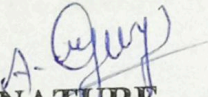# ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "SMART SHOPPING TROLLEY WITH AUTOMATED BILLING USING ARDUINO" is the bonafide work of "S.PORKODI (E17ECR082), B.VINOPRIYA (E17ECR123), K.VINOTHA (E17ECR125), M.NANDHINI (E17ECL305)" who carried out the project work under my supervision.
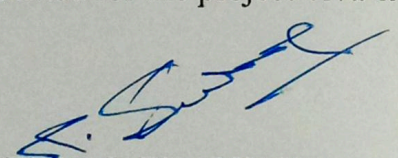
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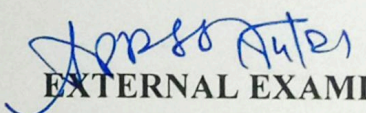**Dr. B.PADMANABAN, M.E.,Ph.D.,**

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

Mr.S.K.PRAGADESH,M.E.,

SUPERVISOR

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 01.04.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii
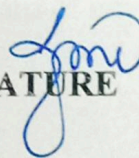
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**BRAIN TUMOR DETECTION FROM MAGNETIC RESONANCE IMAGING (MRI) IMAGES USING ANISOTROPIC DIFFUSION IN MATLAB**" is the bonafide work of "**AKASH.R (E17ECR011), ANANTHA KUMAR.T (E17ECR013), GUGAN.C (E17ECR037)** and **IRSATH AHAMED.M (E17ECR044)**" who carried out the project work under my Supervision.

SIGNATURE

Dr.B.PADMANABAN, M.E.,Ph.D.,
HEAD OF THE DEPARTMENT
Professor
Department of ECE
E.G.S Pillay Engineering College
(Autonomous),
Nagapattinam-611002.

SIGNATURE

Dr.B.PADMANABAN, M.E.,Ph.D.,
SUPERVISOR
(Professor & Head of the department)
Department of ECE
E.G.S Pillay Engineering College
(Autonomous),
Nagapattinam-611002.

Submitted to the Project viva-voce examination held on 01 /04 /2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report titled **"COORDINATED CONNECTIVITY AND COVERAGE TECHNIQUES FOR WIRELESS SENSOR NETWORKS"**, is the bonafide work of **"ABEENAYA P P (E17ECR002), LAKSHMIPRABA V (E17ECR057), PRATHIZA S (E17ECR086), SUJITHA M (E7ECR110)"** who carried out the project work under my supervision.
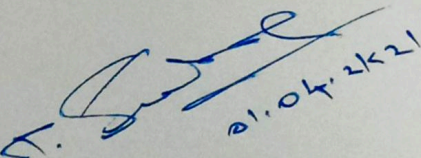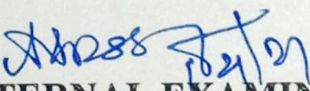
SIGNATURE

Dr. B. PADMANABAN., Ph.D.,

HEAD OF THE DEPARTMENT

DEPARTMENT OF ECE

E.G.S PILLAY ENGINEERING

COLLEGE,

NAGAPATTINAM.

SIGNATURE

Dr. A. SUNDAR RAJ., Ph.D.,

SUPERVISOR

DEPARTMENT OF ECE,

E.G.S PILLAY ENGINEERING

COLLEGE,

NAGAPATTINAM.

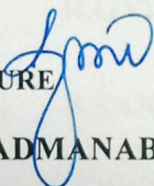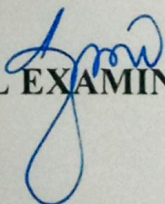Submitted for the Project viva voice examination held on 01/04/2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"DISPERSION COMPENSATION ANALYASIS IN OPTICAL COMMUNICATION SYSTEMS BASED ON OPTISYSTEM"** is the bona-fide work of "T.VIGNESHWARAN (E17ECR122), D.VINOTHKUMAR (E17ECR124), T.YOGESHWARA (E17ECR126), B.KAVIYARAN (E17ECR303)" who carried out the project work under my supervision.

SIGNATURE

SIGNATURE

Dr.B.PADMANATHAN, M.E.,Ph.D.,

Dr. M.IRSHAD AHAMED, M.Tech.,Ph.D.,

HEAD OF THE DEPARTMENT,

SUPERVISOR,

Department of ECE,

Department of ECE,

 E.G.S. Pillay Engineering College,

E.G.S. Pillay Engineering College,

Nagapattinam-611002.

Nagapattinam-611002.

Submitted for the project viva examination held on...1.|.4.|.2.1....

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**ARDUINO BASED FUNCTION GENERATOR**" is the bonafide work of **ARUNTHATHI I (Reg.No.E17ECR018), DIVYA S (Reg.No.E17ECR030), and SUSIMA M (Reg.No. E17ECR114)** who carried out the project work under my supervision.
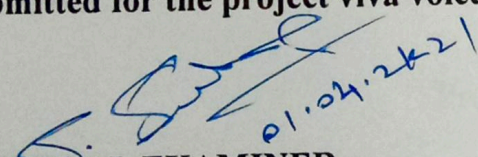
SIGNATURE

Dr. B. PADMANABAN, M.E., Ph.D.,
 Professor & Head

Dept. of Electronics and Communication Engineering

E.G.S. Pillay Engineering College, Autonomous.

Nagapattinam-611002

Submitted for the project viva voice examination held on: 01/04/2021

INTERNAL EXAMINER   **EXTERNAL EXAMINER**

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report **"A NEW MULTI MODEL APPROACH FOR HUMAN AUTHENTICATION SCLERA VEIN AND FINGER VEIN RECOGNITION"** is the bonafide work of **"R.OVIYA (E17ECR077), B.SANTHIYA (E17ECR095)"** who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

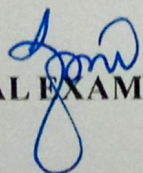**Mr.L.RAMACHANDRAN,M.Tech.,(Ph.D)**

SUPERVISOR

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 01. 04. 2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii
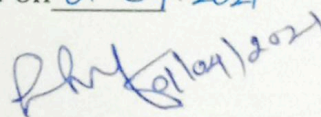
BONAFIDE CERTIFICATE

Certified that this project Report **"ADVANCED FOOT STEP POWER GENERATION USING PIEZOELECTRICTRANSDUCER"**is thebonafidework of"S.DEEPIKA (E17ECR026),M.SNEHA- (E17ECR103),K.NANDHINI - (E17ECR073),and S.SHALINI(E17ECRO98) " who Carried our project work under my supervision.
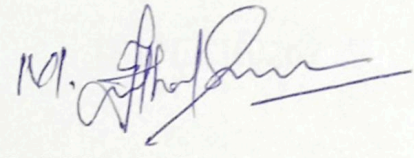
SIGNATURESIGNATURE

Dr.B.Padmanaban M.E.,Ph.D.

Mr.M.Nuthal Srinivasan
M.E,(PhD).,

Professor & Head

AssistantProfessor

Department ofECEDepartment ofECE

E.G.S PillayEngineeringCollegeE.G. S Pillay EngineeringCollege Nagapattinam-611002Nagapattinam-611002

Submitted for the Project viva voce examination held on 01.04.2021

INTERNALEXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE
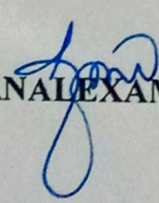
Certified that this project report **"LEARNING INVARIANT COLOR FEATURES FOR PERSON RE-IDENTIFICATION"** is the bonafide work of **"R. JAYASRI (E17ECR048), K. KOWSALYA (E17ECR056), N. PRADEEPA (E17ECR083), K. PRASANNA (E17ECR085)"** who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

Ms. R.KEERTHIKA,M.E.,
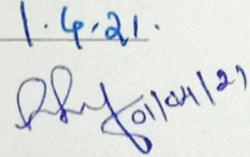
SUPERVISOR

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 01|04| 2021 .
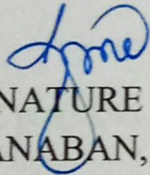
INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"Driver Fatigue Detection Based ON eye tracking using KNN and DNN algorithm** "isthebonafideworkof**"S.S.VLKASHVIKNESH**(Reg.No.E17ECL307),**A.MOHA MED ASFAR**(Reg.No.E17ECR065), **H.MOHAMED SAFIRUDEEN** (Reg.No.E17ECRO67),**B.MOHAMED SAMEER**(Reg.No.E17ECRO68)" who carried out the project work under my supervision.

SIGNATURE   SIGNATURE

DR.B.PADMANABAN.M.E.,Ph.D,   **MS.S.Aadhirai.M.E.,**

HEAD OF THE DEPARTMENT   **Supervisor**

Professor   Professor

Department of ECE   Department of ECE

E.G.S Pillay Engineering College   E.G.S Pillay Engineering College

Nagapattinam   Nagapattinam

Submitted for the Project viva voce Examination held on _____ 1.4.21.

INTERNAL EXAMINER   **EXTERNAL EXAMINER**

ii

ANNA UNIVERSITY, CHENNAI – 600 025.

BONAFIDE CERTIFICATE

Certified that this project report "TRACING OF VEHCILE REGION AND NUMBER PLATE DETECTION USING DEEP LEARNING" is the bonafide work of "**K. KAMALAVASHINI (E17ECR052), P. SUBASHREE (E17ECR107), N. SUMOGANA (E17ECR111)**" who carried out the project work under my supervision.
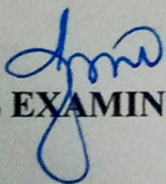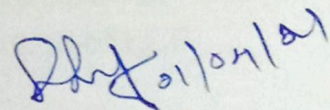
SIGNATURE

Dr. B. PADMANABAN, M.E., Ph.D.,
HEAD OF THE DEPARMENT
PROFESSOR
Department of ECE,
E.G.S. Pillay Engineering College,
Nagapattinam – 611 002

SIGNATURE

Mrs. V. ELAVARASI, M.E., (Ph.D.,)
SUPERVISOR,
ASSISTANT PROFESSOR
Department of ECE,
E.G.S. Pillay Engineering College,
Nagapattinam – 611 002

Submitted for the project viva voice examination held on …..1:4:21:…..

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **"THIRD EYE FOR BLIND USING WI-FI"** is the bonafide work of **"CELSIYA B(E17ECRO22), HARISA M(E17ECR042), PAVITHRA B(E17ECR080)"** who carried out the project work under my supervision.
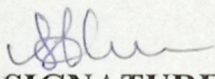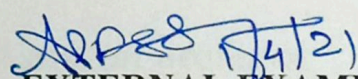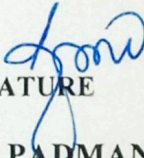
SIGNATURE

DR.B.PADMANABAN.M.E.,Ph.D,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S Pillay Engineering College

Nagapattinam

SIGNATURE

MS.S.Aadhirai.M.E.,

Supervisor

Professor

Department of ECE

E.G.S Pillay Engineering College

Nagapattinam

Submitted for the Project viva voce examination held on 1|4|21

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report **"GSM BASED SMART SECURITY AND MOTOR CONTROLLED SYSTEM"** is the bonafide work of **"S.SELVAKUMARI (E17ECR096), R.SINDUJA (E17ECR100), K.SIVASANKARY (E17ECR102)"** who carried out the project work under my supervision.
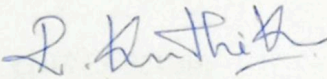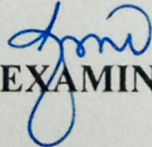
SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

Ms. R.KEERTHIKA,M.E.,
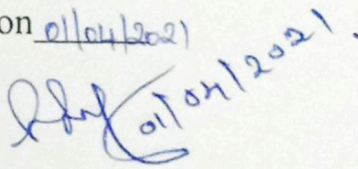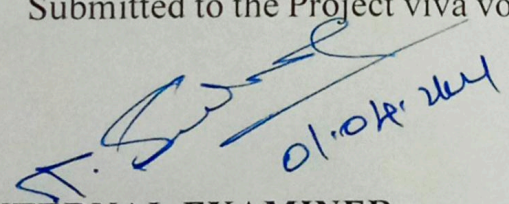
SUPERVISOR

Assistant Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 01/04/2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

BONAFIDE CERTIFICATE

Certified that this project report " **A NEW SMART METER DESIGN FOR INDUVIDUAL HOUSE HOLD FAULT EXPOSURE AND OVERDUE CONTROL BASED IN INTERNET OF THINGS**

" is the bonafide work of "DHINAKARAN K (E17ECR027), AAKASH R (E17ECR001), AKASH A (E17ECR010) and MOHANLAL KARAMSANTH G (E17ECR069) who carried out the project work under my Supervision.

SIGNATURE

Dr.B.PADMANABAN, M.E.,Ph.D.,

HEAD OF THE DEPARTMENT AND PROJECT SUPERVISOR

Department of Electronic and

Communication engineering,

E.G.S. Pillay engineering college,

Nagapattinam-600 0112

Submitted to the Project viva voce examination held on 01/04/2021
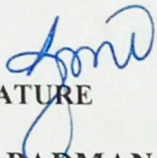
INTERNAL EXAMINER   **EXTERNAL EXAMINER**

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report **"IMPLEMENTATION OF IMAGE PROCESSING TECHNIQUES ON RAINDROPLET REMOVAL"** is the bonafide work of **"T.ABINESH (E17ECR005), M.AMRISH BHARATHY (E17ECR012), G.DINESHKUMAR (E17ECR028), K.HARIPRASAD (E17ECR041)"** who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN, M.E.,Ph.D.,

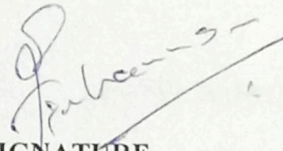**HEAD OF THE DEPARTMENT**

Professor

Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

SIGNATURE

Mr. S. JIM HAWKINSON,M.E., (Ph.D)
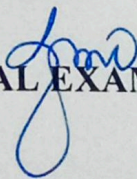
SUPERVISOR

Assistant Professor
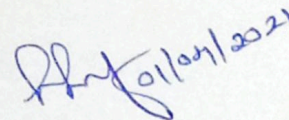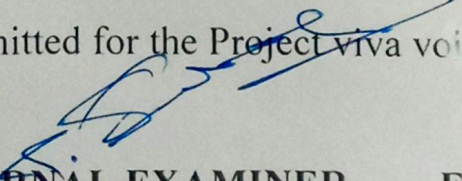
Department of ECE

E.G.S.Pillay Engineering College

Nagapattinam.

Submitted for the Project viva voce examination held on 1.4.2021

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report **"PIPELINE LEAKAGE DETECTION ROBOT"** is the bonafide work of "A. AKASH (E17ECR009), E.BALAYOGESH (E17ECR021), M.HARIHARAN (E17ECR040)" who carried out the project work under my supervision.

SIGNATURE

Dr. B.PADMANABAN M.E.,Ph.d., Dr.A.SUNDARAJ,ME,Ph.d.,

HEAD OF THE DEPARTMENT   SUPERVISOR

Professor   Assistant professor

Department of ECE   Department of ECE

E.G.S.Pillay Engineering College   E.G.S.Pillay

                                                         Engineering college

Nagapattinam.   Nagapattinam.
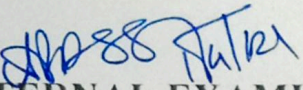
Submitted for the Project viva voice examination held on 01 – 04 – 2021

INTERNAL EXAMINER   EXTERNAL EXAMINER