

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are using for enhancing learning experiences.

Sl. No	Description
1	Experiential Learning
	a) Industrial Visit
	b) In Plant Training & Workshop
	c) Value Added Courses
	d) Laboratory Courses
2	Participative Learning
	a) Seminar/Webinars
	b) Paper Presentation
	c) Final Year Project
3	Problem Solving Techniques
	a) Tutorials
	b) Innovative Assignment
	c) Hackathons
	d) Pitch Fest



Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.



ABVR Two Wheeler Honda
Showroom and Service.
Ellence Nagar, Vandigate,
Chidambaram Taluk,
Cuddalore District,
Tamil Nadu - 608 001, India.

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. RAJESH G pursuing BE MECHANICAL - 3rd year student of PERI Institute of Technology, Mannivakkam, West Tambaram who had Successfully completed his internship of Service Training with us for 10 days from 3rd January 2023 to 12th January 2023. During his training, he was found attentive and punctual. We wish him all success for his future endeavors.



Rajesh
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Date: 14 February 2023

Internship Approval

This is to Welcome "**Thaha Mohamed**", A Mechanical Engineering student from **Peri Institute of Technology**, for a three-month internship at HRM Info Services. The duration of the internship will be from February to April 2023.

Congratulations on reaching this most exciting stage in your life! In the next several weeks/months you will be working on the most fascinating projects in the organization. Your role is to familiarize yourself with all the processes at the organization. Should spend significant amount of time in each department and learn in depth about the flow of work is like for the project.

We hope this internship training will be fruitful. We wish you all the success.

Note for Registration: Report to HR with College ID and Certificates on or before 15 February 2023.

Regards

Hema Malini Parthasarathy
HR Director

+91 63744 85918

hr@hrminfoservices.com

No 5, Ponnappa street, Kilpauk,
Chennai 600010

www.hrminfoservices.com

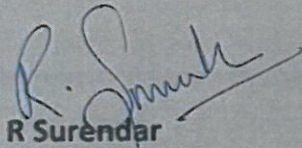
24th September 2022

TO WHOMSOEVER IT MAY CONCERN

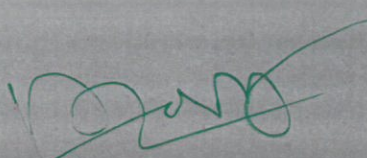
This is to certify that **Mr. JEGATHISH K** bearing Registration No. 221293, Pursuing **BE Mechanical – 4th Year** student of **PERI Institute of Technology, Mannivakkam** had completed his In-plant Training with us from **22nd September 2022 to 24th September 2022**. During his training, he was found attentive and punctual.

We wish him all success in his future endeavors.

For **Joyson Anand Abhishek Safety Systems Pvt. Ltd.**



R Surendar
Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
MANNIVAKKAM, Chennai - 600 048.

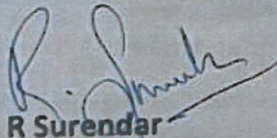
24th September 2022

TO WHOMSOEVER IT MAY CONCERN

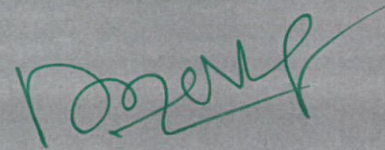
This is to certify that **Mr. AJAY MATHEW R** bearing Registration No. 411519114302, Pursuing **BE Mechanical – 4th Year** student of **PERI Institute of Technology, Mannivakkam** had completed his In-plant Training with us from **22nd September 2022 to 24th September 2022**. During his training, he was found attentive and punctual.

We wish him all success in his future endeavors.

For **Joyson Anand Abhishek Safety Systems Pvt. Ltd.**



R Surendar
Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

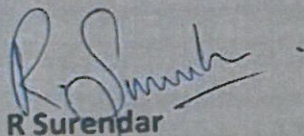
24th September 2022

TO WHOMSOEVER IT MAY CONCERN

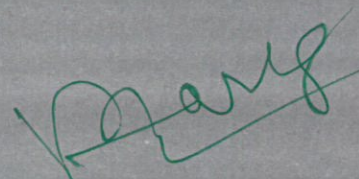
This is to certify that Mr. **RAJESH G** bearing Registration No. 411520114009, Pursuing **BE Mechanical – 3rd Year** student of **PERI Institute of Technology, Mannivakkam** had completed his In-plant Training with us from **22nd September 2022 to 24th September 2022**. During his training, he was found attentive and punctual.

We wish him all success in his future endeavors.

For Joyson Anand Abhishek Safety Systems Pvt. Ltd.



R Surendar
Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

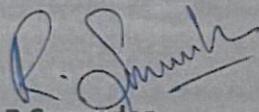
24th September 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. C. TAMIL SELVAN** bearing Registration No. 411520114017, Pursuing **BE Mechanical – 3rd Year** student of **PERI Institute of Technology, Mannivakkam** had completed his In-plant Training with us from **22nd September 2022 to 24th September 2022**. During his training, he was found attentive and punctual.

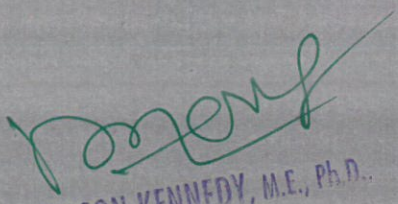
We wish him all success in his future endeavors.

For Joyson Anand Abhishek Safety Systems Pvt. Ltd.



R Surendar

Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

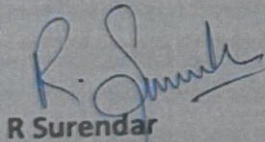
24th September 2022

TO WHOMSOEVER IT MAY CONCERN

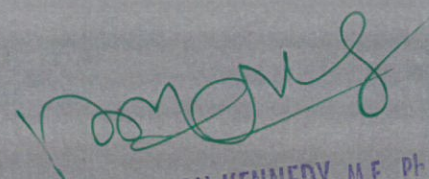
This is to certify that Mr. N R ABINESH bearing Registration No. 411520114001, Pursuing BE Mechanical – 3rd Year student of PERI Institute of Technology, Mannivakkam had completed his In-plant Training with us from 22nd September 2022 to 24th September 2022. During his training, he was found attentive and punctual.

We wish him all success in his future endeavors.

For Joyson Anand Abhishek Safety Systems Pvt. Ltd.



R Surendar
Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

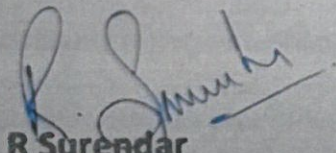
11th October 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. NAGACHARAN S bearing Registration No. 411519114305, Pursuing BE Mechanical – 4th Year student of PERI Institute of Technology, Mannivakkam had completed his In-plant Training with us from 7th October 2022 to 11th October 2022. During his training, he was found attentive and punctual.

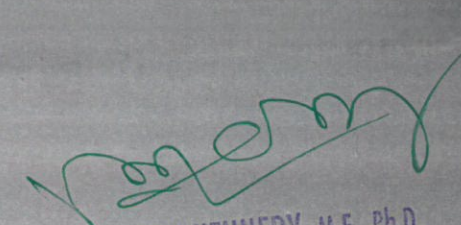
We wish him all success in his future endeavors.

For Joyson Anand Abhishek Safety Systems Pvt. Ltd.



R Surendar

Senior Manager – HR & Admin.



Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.



This is to confirm that "Mr. K.Bhanu Chandra" is a student of "B tech (civil engineering)" course having University "Enrollment No 411519103002" has completed one month internship in building construction at KCPL with our organization from 14th July to 8th August, 2022.



Authorised signature

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Chennai - 600 078.

R.Saravanan, M.E
CHIEF ENGINEER (City)



TAMIL NADU HOUSING BOARD
CMDA COMPLEX, E&C MARKET
ROAD CHENNAI-600 107 PHONE
NO: 24341442

Letter No QC/ 10827/2019

Date:05.08.2022

To

The Head of the Department,
Department of Civil Engineering,
PERI Institute of Technology,
West Tambaram,
Chennai-600 048.

sir,

Sub: TNHB-Quality Control Wing-completion of Internal training in Housing
Board Projects for 15 days

Ref: 1. Lr. No. Nil, dated: 05.08.2022

With reference to your letter above, the following 3 students of Final year Civil
Engineering are completed the plant training for a period of 15 days from 19.07.2022 to
03.08.2022. At various ongoing projects of Special Project Division - II

S.no	Name of the students	Roll no
1.	Malathi.S	411519103301
2.	Ranjith.R	411519103004
3.	Sathish Kumar.V	411519103005

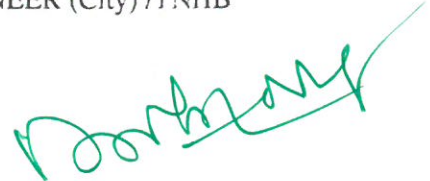
Thanks for the Students being safe in the site as per norms of TNHB suggested at the site.

Sd/ R.Saravanan,
CHIEF ENGINEER (City) /TNHB

Copy to

1. The Superintending Engineer/SPC,
Tamil Nadu Housing Board,
Chennai-35.
2. The Executive Engineer & Admn Officer.
Special Project Division - II, Tamil Nadu
Housing Board, Chennai

// forwarded by order //


Dr. R. PALSON KENNEDY, M.E. M.S.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannadikuram, Chennai - 600 048.
5
SE/QC

28th october 2022

TO WHOM SO EVER IT MAY CONCERN


This is to certify that Mr. **AARIFAHMED (REG NO: 411519103001)** student of PERI Institute of Technology has successfully completed internship program from 14th July 2022 to 09th August 2022 in our organization.

Internship activity includes familiarization of construction materials and construction techniques. He was majorly involved in studying of civil works.

During the period of his internship program with us, we found him sincere hardworking.

We wish him all success in the future.

For DAC Developers Pvt Ltd


GANESH M
Human Resource



DAC Developers Private Limited

New No.27, Old No.19, K-Block, Flat -A1 First Main Road, Anna Nagar East, Chennai - 102.

☎ 044 42103848 ✉ admin@dacdevelopers.com 🌐 www.dacdevelopers.com

28th october 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. **GOBI ANAND (REG NO: 411519103003)** student of PERI Institute of Technology has successfully completed internship program from 14th July 2022 to 09th August 2022 in our organization.

Internship activity includes familiarization of construction materials and construction techniques. she was majorly involved in studying of civil works.

During the period of his internship program with us, we found him sincere hardworking.

We wish him all success in the future.

For DAC Developers Pvt Ltd



GANESH M
Human Resource



Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivekkam, Chennai - 600 048.

DAC Developers Private Limited

New No.27, Old No.19, K-Block, Flat -A1 First Main Road, Anna Nagar East. Chennai - 102.

☎ 044 4210 3848 ✉ admin@dacdevelopers.com 🌐 www.dacdevelopers.com

28th october 2022

TO WHOM SO EVER IT MAY CONCERN


This is to certify that Ms. **USHANANTHINI (REG NO: 411519103006)** student of PERI Institute of Technology has successfully completed internship program from 14th July 2022 to 09th August 2022 in our organization.


Internship activity includes familiarization of construction materials and construction techniques. she was majorly involved in studying of civil works.

During the period of his internship program with us, we found him sincere hardworking.

We wish him all success in the future.

For DAC Developers Pvt Ltd


GANESH M
Human Resource


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 073.

DAC Developers Private Limited

New No 27, Old No.19, K-Block, Flat -A1, First Main Road, Anna Nagar East, Chennai - 102.

☎ 044-42103848 ✉ admin@dacdevelopers.com 🌐 www.dacdevelopers.com



Career Development

CERTIFICATE OF COMPLETION

This is to certify that

MS. SAMYUKTHAA . A.D (411520104312)

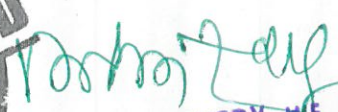
has Successfully Completed


internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!




DR. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.


Jayalakshmi S
Vice president



KaaShiv



2008 - 2018



Certificate

OF COMPLETION

M.Pavithra

PERI Institute of Technology

Is presented with this certificate on successful completion of
Python Internship

Under the guidelines and norms of the program structure
conducted during for

5 Days

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: **KA-J6Vox**

Grade: **A**

Venkatesan Prabu.J
Microsoft MVP

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

The Certificate ID Can be Verified at www.kaashiv.com/verify

KaaShiv



2008 - 2018



Certificate

OF COMPLETION

Naveen M

Peri institute of technology

Is presented with this certificate on successful completion of
Python Internship

Under the guidelines and norms of the program structure
conducted during for

10 Days

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: KA-hASU8

Grade: A

A handwritten signature in black ink.

Venkatesan Prabu.J
Microsoft MVP

A handwritten signature in blue ink.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

The Certificate ID Can be Verified at www.kaashiv.com/verify

KaaShiv



2008 - 2018



Certificate

OF COMPLETION

Lakshmi priya S

Peri Institute of Technology

Is presented with this certificate on successful completion of

MySQL Internship

Under the guidelines and norms of the program structure
conducted during for

5 Days

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: **KA-WH63I**

Grade: **A**

A handwritten signature in black ink.

Venkatesan Prabu.J
Microsoft MVP

A handwritten signature in blue ink.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

The Certificate ID Can be Verified at www.kaashiv.com/verify

KaaShiv



MVP Microsoft
Most Valuable
Professional

2008 - 2018



Certificate

OF COMPLETION

Hemavathy

Peri Institute of technology

Is presented with this certificate on successful completion of

MySQL Internship

Under the guidelines and norms of the program structure
conducted during for

5 Days

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: **KA-n8Dvy**

Grade: **A**

A handwritten signature in blue ink.

Venkatesan Prabu.J
Microsoft MVP

A handwritten signature in blue ink.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,

PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
Marriyakkam, Chennai - 600 048.

The Certificate ID Can be Verified at www.kaashiv.com/verify

KaaShiv

Certificate OF COMPLETION

M.Mareeswari

Peri institute of technology

Is presented with this certificate on successful completion of

MySQL Internship

Under the guidelines and norms of the program structure
conducted during for

5 Days

Attendee met all certification requirements and Successful
performance on the required competence examination.

Certificate ID: KA-f3obx

Grade: A



Venkatesan Prabu.]
Microsoft MVP



Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mettivakkam, Chennai - 600 048.



2008 - 2018



This ID can be verified at www.kashiv.com



Career Development

CERTIFICATE OF COMPLETION

This is to certify that

MR. DINAKARAN C (41520104022)

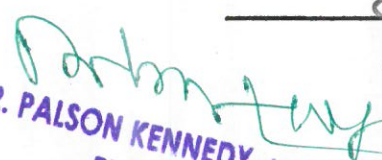
has Successfully Completed

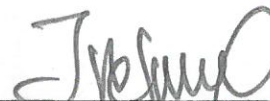
Internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!




Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048


Jayalakshmi S
Vice president



51



DLK

Career Development

CERTIFICATE OF COMPLETION

This is to certify that

MR. AKASH .D (411520104005)

has Successfully Completed

Internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!



Roshan Jay
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Jayalakshmi S
Jayalakshmi S
Vice president





DLK

Career Development

CERTIFICATE OF COMPLETION

This is to certify that

M.R. HEMACHANDRAN R (411526104033)


has Successfully Completed

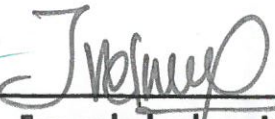
Internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!




Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.


Jayalakshmi S
Vice president



8



Career Development

CERTIFICATE OF COMPLETION

This is to certify that

MS. VARSHINI.V (411520104102)

has Successfully Completed

Internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!



Jayalakshmi S
Jayalakshmi S
Vice president

Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048



16



Career Development

CERTIFICATE OF COMPLETION

This is to certify that

MIS. SNEHAPRIYA.M (411520104092)

has Successfully Completed

Internship / Inplant training in PYTHON TECHNOLOGY from 01/08/22 to 03/08/22

During the training period the performance of the trainee was found to be excellent.

Congratulations on your hard work! keep shining!

Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 04

Jayalakshmi S
Vice president





Inspiring and empowering
future professionals

Karuppiah K

Solutions Architect Virtual Experience Program

Certificate of Internship Completion
August 20th, 2022

Over the peroid of July 2022 to August 2022, Karuppiah K has completed practical task modules in:
Designing a simple, scalable, hosting architecture

Dr. R. PALSON KENNEDY, M.E., Ph.D.

PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Tom Brunskill
CEO, Co-Founder of
Forage

8th Aug 2022

INTERNSHIP CERTIFICATE

This is to certify that **MR PRAVEEN KUMAR T** student of **COMPUTER SCIENCE ENGINEERING** from **PERI INSTITUTE OF TECHNOLOGY** has completed Internship Training on “ **MACHINE LEARNING** ”.

We train them on the real time solutions we have been delivering our clients at **ADVENTURE TECHNOLOGY SOLUTION PVT LTD.**

During this period he was involved in all aspects and his performance was good.

We wish him success in all future endeavors.

For Adventure Technology Solutions Pvt Ltd



DR. R. PALSON KENNEDY, M.E., Ph.D.,

PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.



Satheeshkumar S

(Founder and CEO)

8th Aug 2022

INTERNSHIP CERTIFICATE

This is to certify that **MR PRAVEEN KUMAR T** student of **COMPUTER SCIENCE ENGINEERING** from **PERI INSTITUTE OF TECHNOLOGY** has completed Internship Training on “**PYTHON**”.

We train them on the real time solutions we have been delivering our clients at **ADVENTURE TECHNOLOGY SOLUTION PVT LTD.**

During this period he was involved in all aspects and his performance was good.

We wish him success in all future endeavors.

For Adventure Technology Solutions Pvt Ltd



Satheeshkumar S

(Founder and CEO)



Dr. R. PALSON KENNEDY, M.E., Ph.D.

PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

11th June 2022

PROJECT COMPLETION CERTIFICATE

This is to certify **Mr. VIKRAM R J (Reg.No.411519104099)** Student of **B.E.,(Computer Science and Engineering)** PERI Institute of Technology -Chennai, has successfully completed the “**Tariff Stroll for Monetary Trading Using Deep Learning**” in the **PYTHON** Platform from **January 2022 to March 2022** in our project title company. During the period, he had been exposed to different processes and found to be Punctual, Hard Working and Inquisitive.

We wish him every success in life and career.

For **Shiash Info Solutions Private Limited**



Ashwini Kanniyappan

Manager – Human Resources



DR. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Shiash Info Solutions Private Limited
#51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,
Sholinganallur, Chennai – 600 119, Tamil Nadu, India
+91 44 66255681 info@shiash.com

11th June 2022

INTERNSHIP COMPLETION CERTIFICATE

This is to certify **Mr. VIKRAM R J (Reg.No.411519104099)** Student of **B.E.,(Computer Science and Engineering)** PERI Institute of Technology -Chennai, has successfully completed the Internship **PYTHON** domain from **January 2022 to March 2022** in our company. During the period, he had been exposed to different processes and found to be Punctual, Hard Working and Inquisitive.

We wish him every success in life and career.

For **Shiash Info Solutions Private Limited**



Ashwini Kanniyappan

Manager – Human Resources



DR. R. PALSON KENNEDY, M.E., Ph.D..
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Shiash Info Solutions Private Limited
#e51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,
Sholinganallur, Chennai – 600 119, Tamil Nadu, India
+91 44 66255681 info@shiash.com

8th Aug 2022

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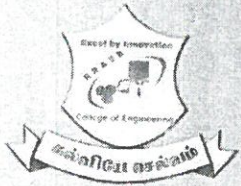
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College of Engineering,


Date : 04-03-2023

Place : Padappai


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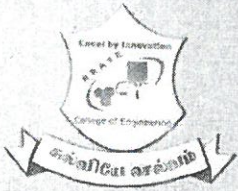
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(ICCET-2K23)

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This is to certify that Mr / Ms. POOVARASAN. A
has successfully presented a paper titled Swb - Powered Emergency
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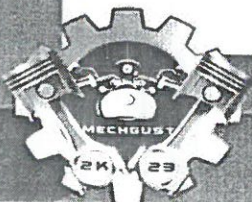
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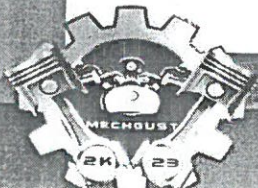
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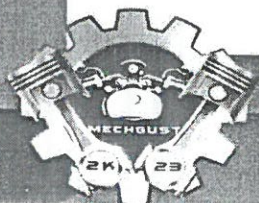
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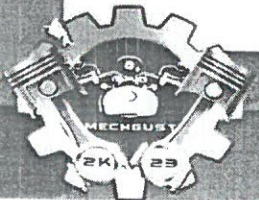
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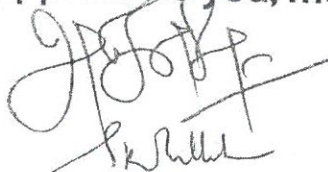
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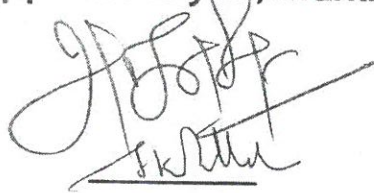
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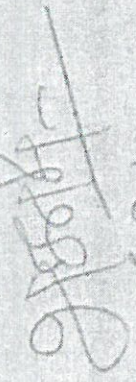
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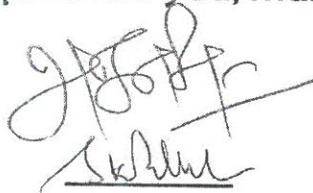
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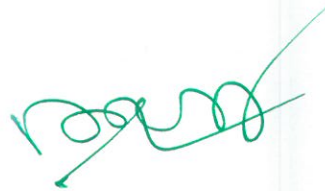
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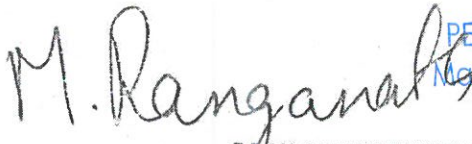
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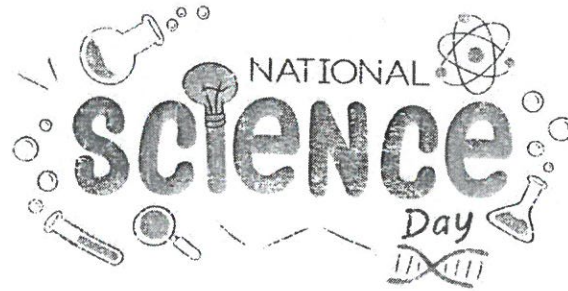

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Department of EEE has participated in Essay writing
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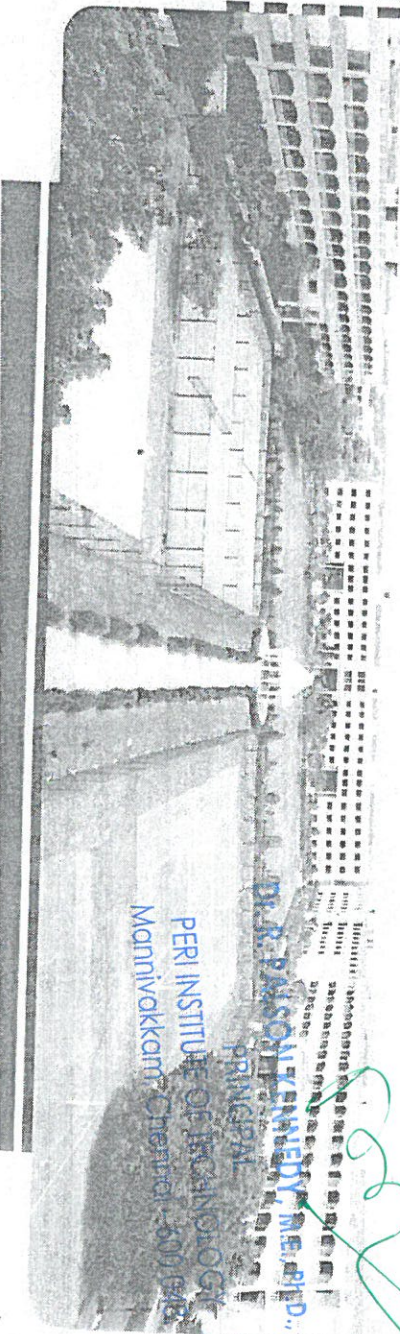
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has won I place in PROJECT DISPLAY
"E BOAT USING SOLAR WITH SOLAR TRACKER" event(s)
organized by the department of EEE

held at National Level Technical Symposium on 14th September 2022.


Dr. S. RAMACHANDRAN
PRINCIPAL


Thiru. D. SABARINATH
DIRECTOR


Thiru. S. AMARNAATH
CORRESPONDENT





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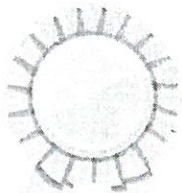
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TECHNOPHILIA - 22

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College of Engineering, Sriperumbudur, Chennai on 23.09.2022

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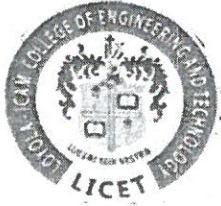
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Dr. R. PALSON KENNEDY, M.E., Ph.D.,

PRINCIPAL

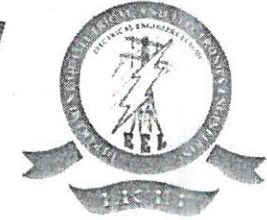
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Department of Electrical and Electronics Engineering



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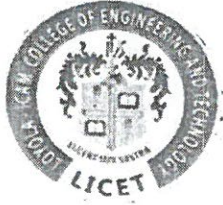
A National level Symposium organized by Department of Electrical and
Electronics Engineering, LICET on October 8th, 2022

S. Prathiba
HOD

[Signature]
Principal

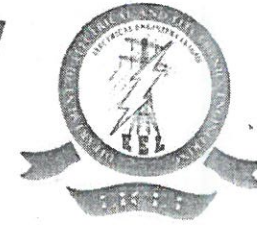
S. Scharthij
Director

[Signature]
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S. S. S.
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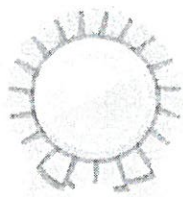
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secured [✓]First Place/Second Place/participated in PROJECT PRESENTATION at

the National Level technical Symposium "TECHNOPHILIA-22" conducted in St. Joseph

College of Engineering, Sriperumbudur, Chennai on 23.09.2022

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Dr. R. PALSON KENNEDY, M.E., Ph.D.,

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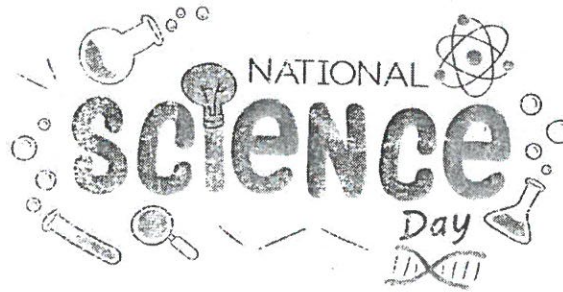
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Muhivakkam, Chennai - 600 048.



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28.02.2023 organised by PERI SKILL DEVELOPMENT CELL

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VICE PRINCIPAL

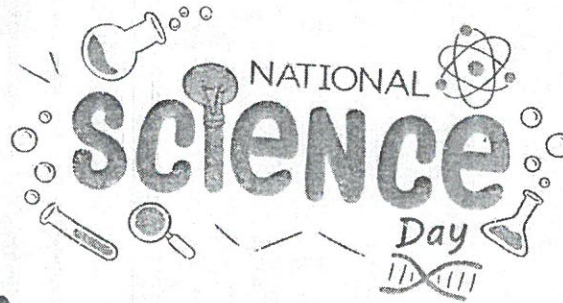


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PERI INSTITUTE OF TECHNOLOGY
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stitute. of.. Technology... Chennai.....

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1. Quiz.....

National Level Technical Symposium **TEK CLUSTER**
Department of *Electrical and Electronics Engineering*.....

Year 2022.

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Year 2022.





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CIRCUIT DEBUGGING event(s)
organized by the department of EEE
held at National Level Technical Symposium on 14th September 2022.



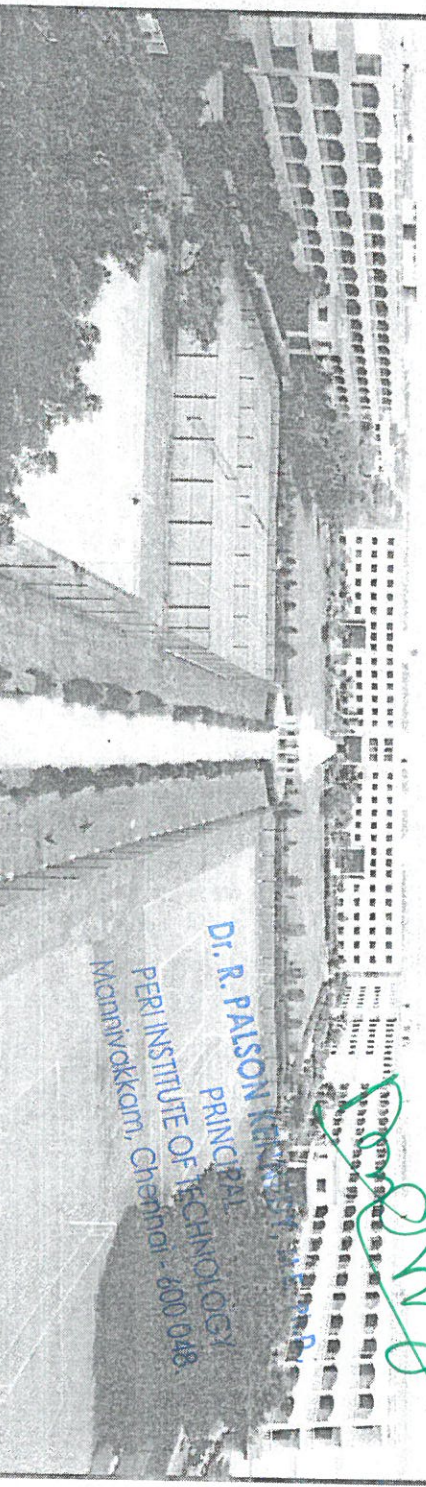
DR. S. RAMACHANDRAN
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THIRU. D. SABARINATH
DIRECTOR



THIRU. S. AMARNAATH
CORRESPONDENT



Dr. R. PALSON PRINCIPAL
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College of Engineering,

Date : 04-03-2023

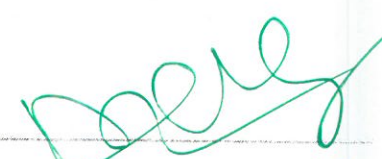

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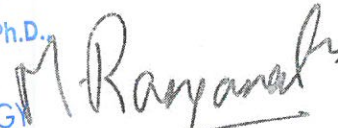
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ENGINEERING & MATHEMATICS (ICSTEM-2023) on 3rd & 4th MARCH 2023 held @ RRASE
College of Engineering,

Date : 04-03-2023

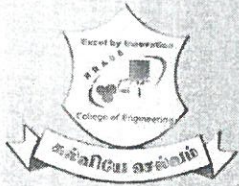
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College of Engineering,

Date : 04-03-2023

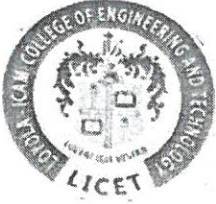
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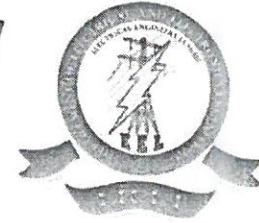

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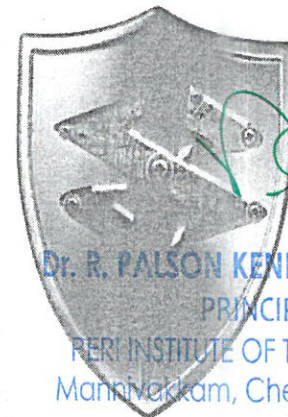
who has won I Place in Esperanza ----- *Strom 2k22.*

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S. Pratheeba
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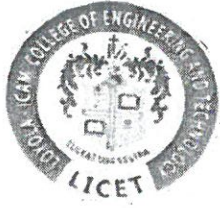
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REV. DR. S. SEBASTIAN SJ
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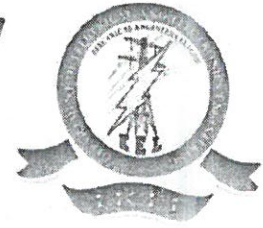
DR. K. KUNARAJ
DEAN OF RESEARCH
LICET

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S. Prothiba
HOD

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Principal

S. Senthil
Director

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ACADEMIC YEAR 2022 – 2023

Practical Courses

S. No.	Reg. No.	Name of the Students	Practical Courses
1	411519105001	S. Abimanyu	EE8711 Power system simulation laboratory EE8712 Renewable Energy systems Laboratory EE8811 Project work
2	411519105002	C Archana jenifer	
3	411519105003	S Balaji	
4	411519105005	M Durai raj	
5	411519105006	R Hariharan	
6	411519105007	P Iyappan	
7	411519105008	K. Ponnarasi	
8	411519105009	R. Savitha	
9	411519105010	P surya	
10	411519105011	M. Vinoth kumar	
11	411519105301	V dinesh kumar	
12	411519105303	V. Prakash.	

Third Year

S. No.	Reg. No.	Name of the Students	Practical's Courses
1	411520105001	R.L.Arunachalam	EE8511 Control and Instrumentation CS8383 Object Oriented programming laboratory HS8581 Professional Communication
2	411520105003	S.Chandru	
3	411520105004	K.Janarthanan	
4	411520105005	D.Jayanth	
5	411520105006	V.Keerthana	
6	411520105007	R. Krishnakumar	
7	411520105008	A. Nitheesh	
8	411520105009	C.Pavithra	
9	411520105010	A.Poovarasan	

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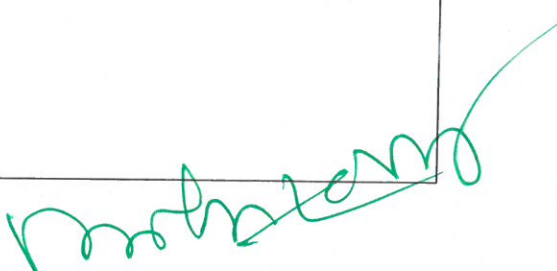
Phone No : 044 3505 5400 admin@peri.education www.peri.education

10	411520105011	A.Praveenkumar
11	411520105012	R.Rajkumar
12	411520105013	Ramya.S
13	411520105014	E.Saravanan
14	411520105015	Sivaramakrishnan. R
15	411520105016	G.Srikanth
16	411520105017	G.Vigneshwaran
17	411520105018	M.Yuvashree
18	411520105301	B.Abishek samuel
19	411520105302	S.Anuramabarathi
20	411520105307	S.Gokul
21	411520105309	Harish.P
22	411520105310	R.Harish
23	411520105311	P.Jancy Reena
24	411520105312	S.Jayanthan
25	411520105313	M.Kavikumar
26	411520105314	A.Kingslin
27	411520105315	Mariakalai.P
28	411520105319	S.Nivetha
29	411520105324	S. Sarvesh
30	411520105330	M.Suresh
31	411520105331	Thirsha M
32	411520105332	M. Thomas Richard
33	411520105333	R.Varshini
34	411520105334	P. Velu
35	411520105335	M.Venkatesh


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Second Year


1	411521105001	Ashish J	EC3311 Electronic devices and Circuits Laboratory EE3311 Electrical Machines Lab-I CS3362 C Programming and Data Structures Laboratory Ge3361 Professional Development
2	411521105002	Bubesh S	
3	411521105004	Divya R	
4	411521105006	Kamalavendhan S	
5	411521105007	Kaviya M	
6	411521105008	Keerthika V	
7	411521105009	Likhitha J	
8	411521105011	Murali S	
9	411521105012	Nikitha N	
10	411521105013	Nisha B	
11	411521105015	Pothigachalam U	
12	411521105017	Priyanka M	
13	411521105018	Sabitha S	
14	411521105019	Samy K	
15	411521105020	Saravanan K	
16	411521105021	Shasidharan K	
17	411521105022	Sivaraj R	
18	411521105023	Thivya S	
19	411521105024	Varunraj G	
20	411521105025	VinayagaMoorthy M	
21	411521105305	Kamaraj.K	
22	411521105311	B.Sandhanakrishnan	
23	411521105312	A.Sethuraman	
24	411521105501	K Prasanth	


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PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

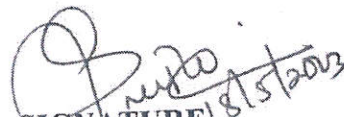
Certified that this project "E-BOAT USING SOLAR WITH DUAL AXIAL SOLAR TRACKER" is the bonafide work of **BALAJI. S (411517105003)**, **PONNARASI.K (411517105008)** , **PRAKASH.V (411519105303)** and who carried out the project work under my supervision.


SIGNATURE 18/5/2023

MRS.S.L.SREEDEVI M.E.
HEAD OF THE DEPARTMENT

Department of Electrical
and Electronic Engineering

Peri Institute of Technology
Mannivakkam, Chennai-48


SIGNATURE 18/5/2023


MRS.S.L.SREEDEVI M.E.
SUPERVISOR


Assistant Professor

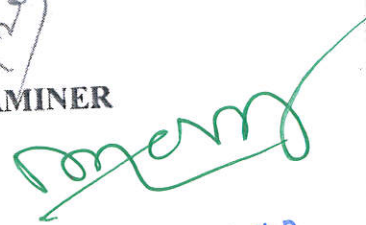
Department of Electrical
and Electronics engineering

Peri Institute of Technology
Mannivakkam, Chennai-48

Submitted for the **VIVA-VOCE** Examination held on 19.05.2023

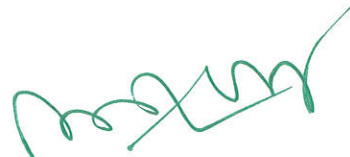

INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

ABSTRACT

In this project, we are going to build Electrical boat using solar panel and we are going to change the solar panel angle based upon Sunlight direction with the help of solar tracker, we are going to combine both solar tracker and solar panel and we are also going to change the position of the solar panel using dual axis solar tracker. It has been shown that these sun tracking systems can be broadly classified as single axis and dual axis, depending on their mode of rotation. Further it can be classified as active and passive tracker depending on the actuator. The sub division and their basic principles of each method have been reviewed. Overall, the results presented in this review confirm that the azimuth and altitude dual axis tracking system is more efficient compared to other tracking systems. In future the present paper details will be useful in selecting an accurate and particular tracker with respect to region, available space and estimated cost. The another benefit of project is that the reduction of pollution, so that the ozone layer can be prevented from pollution and global warming can also be avoided.




Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "HIGH EFFICIENT MULTIPLE ENERGY STORAGE SMART CYCLE" is the bonafide work of IYAPPAN.P (411519105007) , SURYA.P (411519105010) , VINOTH KUMAR.M (411517105011) and who carried out the project work under my supervision.


SIGNATURE

MRS.S.L.SREEDEVI,M.E,(Ph.D)

HEAD OF THE DEPARTMENT

Department of Electrical
and Electronic Engineering

Peri Institute of Technology
Mannivakkam , Chennai-48


SIGNATURE

Mr.R.TAMILAMUTHAN,M.E

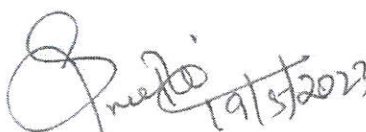
SUPERVISOR

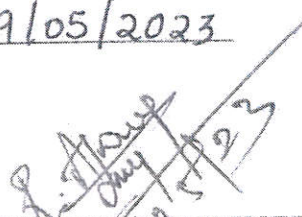
Assistant Professor

Department of Electrical
and Electronics Engineering

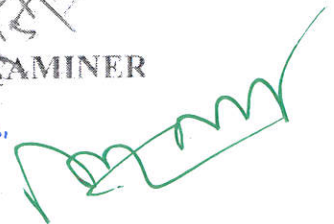
Peri Institute of Technology
Mannivakkam,Chennai-48

Submitted for the VIVA-VOCE Examination held on 19/05/2023


INTERNAL EXAMINER


EXTERNAL EXAMINER

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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PERI INSTITUTE OF TECHNOLOGY
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ABSTRACT

In this project, we are going to build high-efficient multiple energy storage smart cycle. The frequent news about the extinction of fossil fuels has increased the importance of usage of electricity in the future. Electric Vehicles will be utilized to a greater extent. Office going people and people who travel moderate distances will be benefited from the electric bicycle. The electric bi-cycle contains motor to help the vehicle move forward and various power sources are being used. The batteries provide power to the motor and the motor drives the vehicle. When the battery is fully discharged the battery is recharged again by using a dynamo, solar panel and plug-in charging (Three-way charging). In this project, we have used a DC motor/generator attached to the rear wheel of the bicycle. Two sets of batteries are connected to the setup such as A and B. When one of the batteries gets discharged another battery will provide the power required. During that time, the rotation of the front wheel rotates the dynamo which produces an output of voltage and then at stopping time solar panel or plug-in charging is used. The system has a mobile controllable switch that facilitates smooth transitions between charge and discharge operations of two battery, ensuring uninterrupted power supply. Additionally, the cycle features a key safe anti-theft system, providing an extra layer of security that allows users to locate the bike in case of theft.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "QUASI SWITCHING BUCK BOOST CONVERTER FOR DC TRANSMISSION LINE" is the bonafide work of ABIMANYU. S (411519105001), DINESH KUMAR.V (411519105301), HARIHARAN.R (411519105006) and who carried out the project work under my supervision.

SIGNATURE

Mrs.S.L.SREEDEVI M.E.
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Assistant Professor

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Mannivakkam , Chennai-48

Submitted for the VIVA-VOCE Examination held on 19/05/2023

INTERNAL EXAMINER

EXTERNAL EXAMINER

DR. R. PALSON KENNEDY, M.E., Ph.D.,
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ABSTRACT


This paper presents the design and implementation of a quasi-switching buck-boost converter for voltage regulation in power transmission lines. The converter is designed to step up or step down the voltage of the power being transmitted along the line to maintain a stable voltage at the load end. The quasi-switching circuitry allows the switching device to turn off naturally when the current through it reaches zero, reducing switching losses and EMI, and improving overall efficiency. The paper describes the methodology for designing the converter, including selection of components, control circuitry, and testing and optimization. Simulation and experimental results demonstrate the effectiveness of the converter for voltage regulation in power transmission lines, showing stable output voltage, high efficiency, and low output ripple. The proposed converter can be a useful tool for voltage regulation in power transmission lines, helping to maintain a stable voltage at the load end and improve overall efficiency.


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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "OPTIMAL RNN CONTROL OF STATCOM FOR EFFICIENT HYBRID RENEWABLE POWER SYSTEM WITH BATTERY" is the bonafide work of C. ARCHANA JENIFER (411517105002), M. DURAIRAJ (411517105005) and R. SAVITHA (411517105009) who carried out the project work under my supervision.



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Dr.T.N.SURESH,M.Tech,Ph.D.

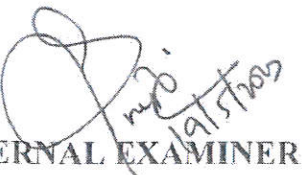
Assistant Professor

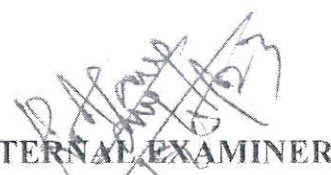
SUPERVISOR

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Peri Institute of Technology
Mannivakkam, Chennai-48

Submitted for the VIVA-VOCE Examination held on 19/05/2023


EXTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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ABSTRACT

This project proposes a various converters integrated with renewable sources to the utility grid along with its control strategies are proposed. The solar system provides voltage to the inverter through Self-lift Luo converter. The WECS with DFIG, AC-DC conversion takes place with the aid of PWM rectifier and the control of rectifier is carried out with a PI controller. To achieve energy management for the proposed system using Bidirectional Battery converter along with battery system. In this project to achieve the grid synchronization with DSTATCOM devices controlled by RNN controller with D-Q theory transformation. Under this work, DSTATCOM has been used to improve the quality of power under different conditions. The LC filter is employed to enhance the output of the inverter. The control outputs are the output power of the PV/FC input power sources as well as AC power injected into the power grid. The obtained results indicate that the proposed approach delivers better performance with enhanced efficiency and minimal harmonics. The entire project is validated through a MATLAB simulation 2021a.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "ANIMAL TRAIN ACCIDENT DETECTION IN RAILWAY SIGNAL USING ULTRASONIC SENSORS" is the bonafide work of JANARTHANAN. K (411520105004), SARAVANAN.E (411520105014), SIVARAMAKRISHNAN. R(411520105015), VENKATESH. M (411520105335) and who carried out the project work under my supervision.


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Dr.P. YAMUNAA M.E,Ph.D

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Mannivakkam, Chennai-48

Submitted for the VIVA-VOCE Examination held on 01/06/2023


INTERNAL EXAMINER


EXTERNAL EXAMINER

ii


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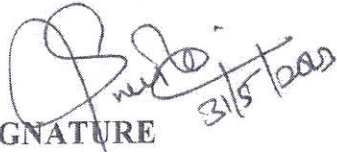
ABSTRACT

The Indian railways are suffering from the collision of animal – rail in forest areas. Today, India has fourth largest railway network management in the world comes from United states, Russia and China. Considering an India as an example, in the past five years numerous laws has been passed by the government of India for the protection of wildlife sanctuaries and jungle animals nearby railway track. To overcome this problem, we analyzing the detection of crack and collision of animal – rail in the proximity area. If these deficiencies may result in increasing an Indian railway budget and loss life and property. In this paper proposing cost effectiveness solution to managing this problem of preventing the collision of rail – animal accidents. From this project we'll know how to implement the automation in railway Signal control using Arduino. Application of this project is the direct implementation in real world. Some components will be required more but the main working principle will be same. Now, other alerting systems can also be developed by using Arduino. The main aim of this project is to reduce train accidents at railway level crossings to the minimum.

ANNA UNIVERSITY: CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project "INTELLIGENT WATER LEVEL MONITORING SYSTEM" is the Bonafede work of "S.RAMYA (411520105013) , P.HARISH (411520105309) , P.JANCY REENA (411520105311) and P.VELU (411520105334)" who carried out the project work under my supervision.



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Dr.J.RAJI

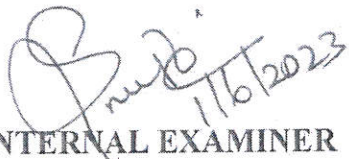
SUPERVISOR

Assistant Professor

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Mannivakkam, Chennai-48

Submitted for the VIVA-VOCE Examination held on 01.06.2023



INTERNAL EXAMINER



EXTERNAL EXAMINER



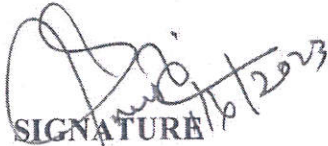
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam Chennai - 600 048.

ABSTRACT

Water level indicator is widely used in many industries and houses. People generally worry about the wastage of water, when the switch ON the motor and forget to OFF them. An Water Level Indicator may be defined as a system by which we can get the information of any water reservoir. Water level indicator system are quite useful to reduce the wastage of water from any reservoir, while filling such reservoir. But for domestic purpose we cannot go for the instruments which use radar or ultrasonic principle that costs high. Water tank overflow is a common problem which leads to the wastage of water. In this project we are using the metal sensor water level indicator circuit is very useful to indicate the water levels in a tank. Whenever tank gets filled, we get alerts on particular levels. The LEDs is generally used for indicate the water levels. If the water level is full, then the circuit beeps through the buzzer notifying that the water level is full.

BONAFIDE CERTIFICATE

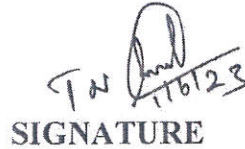
Certified that this project "IMPLEMENTATION OF ENERGY EFFICIENT SMART STREET LIGHT MANAGEMENT SYSTEM FOR SMART CITY" is the bonafide work of KRISHNAKUMAR.R (411520105007), HARISH.R (411520105310), KINGSLIN.A (411520105314), SURESH.M (411520105330) and who carried out the project work under my supervision.


SIGNATURE

MRS.S.D. SREEDEVI.M. E

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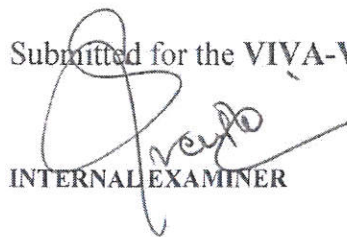

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Dr.T.N.SURESH

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Associate Professor
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Submitted for the VIVA-VOCE Examination held on 01-06-2022

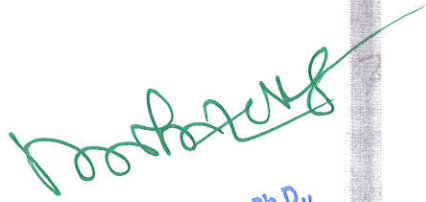

INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
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Mannivakkam, Chennai - 600 048.

ABSTRACT

Automatic Street Light Control System is a simple yet powerful concept, which uses transistor as a switch. By using this system manual works are 100% removed. It automatically switches ON lights when the sunlight goes below the visible region of our eyes. This is done by a sensor called Light Dependant Resistor (LDR) which senses the light actually like our eyes. It automatically switches OFF lights whenever the sunlight comes, visible to our eyes. By using this system energy consumption is also reduced because nowadays the manually operated street lights are not switched off even the sunlight comes and also switched on earlier before sunset. In this project, no need of manual operation like ON time and OFF time setting. This project clearly demonstrates the working of transistor in saturation region and cut-off region. The working of relay is also known.


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Mannivakkam, Chennai - 600 048.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE


Certified that this project report **SOLAR PANEL CLEANING USING WIPER WITH DIGITAL TIMER** is the bonafide work of **ARUNACHALAM. R.L (4115201053001), CHANDRU. S (411520105003), JAYANTHAN. S (411520105312), SARVESH. S (411520105324)** and who carried out the project work under my supervision.


SIGNATURE 31/5/2023

Mrs. S.L. SREEDEVI M.E
HEAD OF THE DEPARTMENT

Department of Electrical
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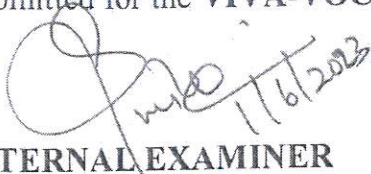

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Mrs. S.L. SREEDEVI M.E
SUPERVISOR
Assistant Professor

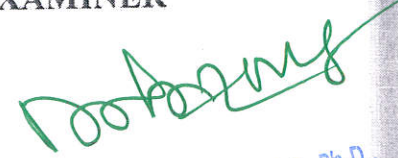
Department of Electrical
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Mannivakkam, Chennai-48

Submitted for the **VIVA-VOCE** Examination held on 01.06.2023


INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Chennai - 600 048.

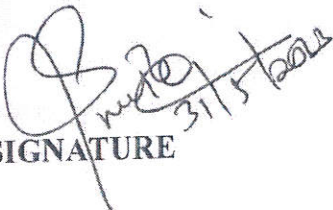
ABSTRACT

In this project we are going to build a solar panel cleaner using a wiper and we are going to set the digital timer in the automatic mode to control the wiper automatically by turning on and off for the programmed time. It has been shown that these timer systems can be broadly classified into digital and Arduino based timer system. The sub divisions and their basic principles of each method have been reviewed. The Arduino based timer system costs more than the digital timer and so the digital timer is used here, but the Arduino timer system gives more efficiency than the digital timer. In future the present paper details will be used for selecting an accurate cleaning of solar panel for any kind of dusts, dirt's and other contaminants which reduces the efficiency of the solar panel. Another benefit of this project is that it shows the battery can easily be charged only through the solar panel and the brightness of the light can also increase.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

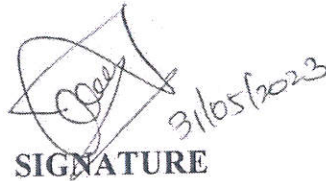
Certified that this project “ SWB-POWERED EMERGENCY MOBILE CHARGER” is the bonafide work of “C.PAVITHRA (411520105009) R.RAJKUMAR (411520105012) and P.SRIDHARAN (411520105327)” who carried out the project work under my supervision.


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MRS.S.L.SREEDEVI M.E.

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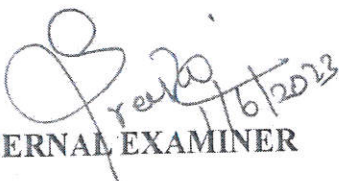
Mr.R.TAMILAMUTHAN M.E.

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Submitted for the VIVA-VOCE Examination held on 01/06/2023


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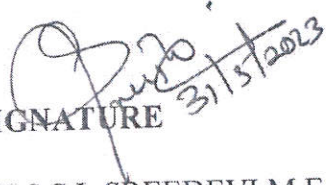
ABSTRACT

This paper is about framework structures, in which cell phones go about as either dynamic or aloof gadgets relying upon accessible correspondence between advanced cells and their sun powered chargers. In recent days power generation using renewable energy sources gained more attraction. The most commonly available and used energy resources are solar and wind. The objective presented here is charging of low power electronic gadgets using the wind energy available during travelling. A DC generator with a Sepic converter provides voltage required for charging the gadgets when the vehicle speed exceeds 40km/hr. Even though the speed fall is observed, the gadgets will get continuously charged by the external battery source which is connected to the proposed circuit. This could be used as emergency source for charging electronic gadgets while travelling in a vehicle. The outcomes from the recreation and the trial show the plan's adequate achievability for down to earth usage. Coming 21st century, we have gained some astounding ground in making sun-based cells which are the devices energizing our future, changing over sun's imperativeness into power. This work is connected to using non-conventional imperativeness that is sun-arranged essentialness for adaptable battery charging. Sun controlled chargers are direct, helpful and arranged to utilize gadgets which can be utilized by anybody particularly in faraway locales.

ANNA UNIVERSITY CHENNAI-600 025

BONAFIDE CERTIFICATE

Certified that this project report " SMART FOOT STEP POWER GENERATION" is the bonafide work D. JAYANTH (411520105005), A.PRAVEENKUMAR (411520105011) and M.YUVASHREE (411520105018) who project work under my supervision.

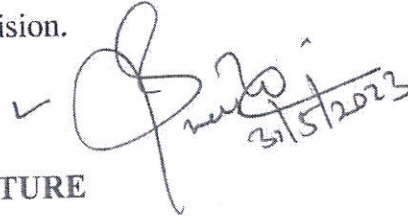

SIGNATURE

MRS.S.L.SREEDEVI M.E.,

HEAD OF THE DEPARTMENT

Department of Electrical and
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MRS.S.L.SREEDEVI M.E.,

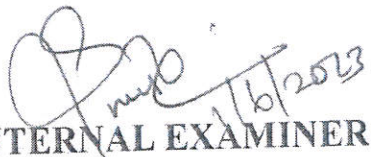
SUPERVISOR

ASSISTANT PROFESSOR

Department of Electrical and
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Mannivakkam, Chennai 600048.


The project report submitted for the viva voce held on 01/06/2023


INTERNAL EXAMINER


EXTERNAL EXAMINER

ABSTRACT

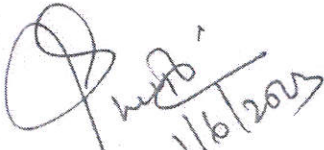
Electrical energy is important and had been demand increasingly. A lot of energy resources have been wasted and exhausted. An alternative way to generate electricity by using a population of human had been discovered. When walking, the vibration that generates between the surface and the footstep is wasted. By utilizing this wasted energy, the electrical energy can be generated and fulfill the demand. The transducer that uses to detect the vibration is a piezoelectric transducer. This transducer converts the mechanical energy into electrical energy. When the pressure from the footstep is applied to the piezoelectric transducer, it will convert the pressure or the force into the electrical energy. The piezoelectric transducer is connected in series-parallel connection. Then, it is placed on the tile that been made from wood as a model for footstep tile to give pressure to the piezoelectric transducers. This tile can be placed in the crowded area, walking pavement or exercise instruments. The electric energy that generates from this piezoelectric tile can be power up low power appliances.


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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "MOBILE PHONE DETECTOR USING LM358"
is the bonafide work of "NITHEESH A (411520105008), SRIKANTH G
(411520105016), MOHAN R (411520105316), and THOMAS RICHARD M
(411520105332)" who carried out the project work under my supervision.


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MRS.S.L. SREEDEVI.M.E, M.B.A
HEAD OF THE DEPARTMENT

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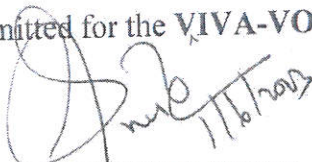

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Dr.P. YAMUNAA M.E.Ph.D.
SUPERVISOR


Assistant Professor

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Peri Institute of Technology
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Submitted for the VIVA-VOCE Examination held on 1/6/23



INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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ABSTRACT


Now a days as the technology is improved, people are addicted to mobiles. They are at that stage where they are using and at what situation they are. There are some restricted places like hospitals, examination halls etc. To avoid that situation, we have designed a mobile detector circuit. This detector can sense the presence of and activated mobile phone from a distance of one and a half meter. So, it can be used to prevent use of mobile phone in examination halls, confidential rooms etc. It is also useful for detecting the use of mobile phone for spying and un authorized video transmission. The circuit can detect the incoming and outgoing calls, SMS and video transmission even if the mobile is kept in silent mode. It is built around CA3130 (IC1) and NPN transistor BC548 (T1). When a mobile phone is active, it radiates RF signal that passes through nearby space. The signal contains electromagnetic RF radiation from the phone. Capacitor C1 is used in the circuit to detect the RF signal from the mobile phone Carefully solder the capacitor in standing position with equal spacing of the leads. The response can be optimized by trimming the lead length of C3 for the desired frequency. You may use a short telescopic type antenna. Use the miniature 12V battery of a remote control and a small buzzer to make the gadget pocket-size. The unit will give the warning indication if someone uses Mobile phone within a radius of 1.5-2 meters.


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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project "TRANSFORMER MONITORING USING ARDUINO" is the bonafide work of "KAVIKUMAR.M (411520105313), NIVETHA.S (411520105319), THIRSHA.M (411520105331), and VARSHINI. R (411520105333) "and who carried out the project work under my supervision.


SIGNATURE 11/6/2023

MRS.S.L. SREEDEVI M.E
HEAD OF THE DEPARTMENT

Department of Electrical
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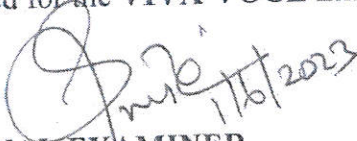

SIGNATURE


Ms.A.VIJAYALAKSHMI M.E
SUPERVISOR

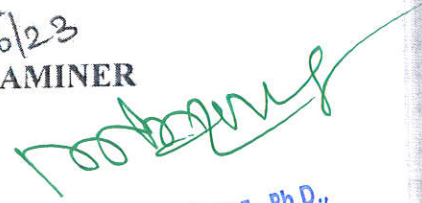
Assistant Professor
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Mannivakkam, Chennai-48

Submitted for the VIVA-VOCE Examination held on 01-06-2023

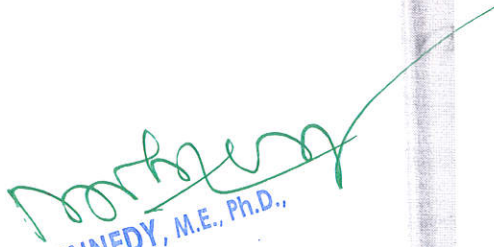

INTERNAL EXAMINER 11/6/2023


EXTERNAL EXAMINER 11/6/23


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ABSTRACT

To maintain the reliability in grid operation it is important to monitor real time transformer health. We know the importance of transformers in electricity distribution and transmission. They are the main components and constitute the sizable portion of capital investment of the distribution grid. Transformers are used for electricity distribution and transmission which decreases/increases the primary voltage to the utilization voltage for customer use. As distribution transformers are very costlier in electrical industry. Real time transformer health monitoring systems help to replace the equipment before failure and continuity of the power will not be disturbed. This project proposes a system for IOT remote monitoring of transformer. The information regarding transformer output voltage, current, power and available temperature will be transmitted wireless to a webserver through Internet. Here microcontroller IC ATMEGA 328p (Arduino) is used in this IC programming is done which continuously monitors the transformer operation parameters. It sends the acquired data to the user using NodeMCU 12E Wi-Fi module and also can receive command from the user for performing load shedding.


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BONAFIDE CERTIFICATE

Certified that this project report titled "PV PANNEL BASED INTERLEAVED CONVERTER FOR ELECTRIC VEHICLE" is the bonafide work of VIGNESHWARAN.G (411520105017) ABISHEKSAMUEL.B (411520105301), GOKUL.S (411520105307), and RAJESH.S (411520105323) who carried out the project work under my supervision.


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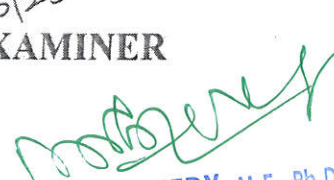
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The project report submitted for the viva voce held on 1/6/2023



INTERNAL EXAMINER


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ABSTRACT

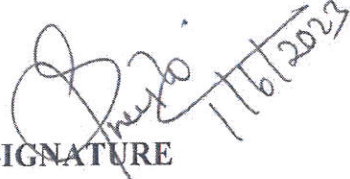
In this project, an examination of PV board based Interleaved converter for Electric vehicle charging is implemented. This framework comprises of sun powered cell battery, bidirectional dc -dc converter. A Battery is accommodated supply capacity to dc engine during no daylight condition. The bidirectional dc-dc converter is working in both charging and releasing the battery and can deal with the progression of force in both the bearing and henceforth overabundance energy from the PV board can be put away in battery. Affected by fluctuating irradiance and differing load conditions, the MPPT regulator extricates full power from the PV module. This proposed project is implemented using. This paper proposes a novel approach to improve the performance and efficiency of electric vehicle (EV) power conversion systems through the integration of a photovoltaic (PV) panel based interleaved converter. The aim is to utilize the available solar energy to supplement the battery power and increase the driving range of the EV. The proposed converter architecture consists of multiple interleaved DC-DC converters connected to a PV panel array. Each DC-DC converter operates at a high switching frequency, enabling efficient power transfer from the PV panel to the EV battery. The interleaved structure ensures reduced current ripple and enhanced power processing capability, resulting in improved overall system performance


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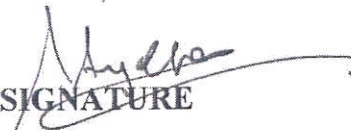
Certified that this project "STREAMLINED SMART HOME AUTOMATION USING INTERNET OF THINGS" is the bonafide work of KEERTHANA.V (411520105006), POOVARASAN.A (411520105010), ANURAMABARATHI.S (411520105302), MARIYAKALAI.P (411520105315), and who carried out the project work under my supervision.


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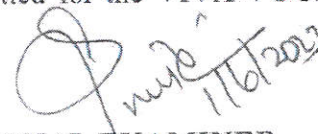
MR. ANTONYCHARLES ME.
SUPERVISOR

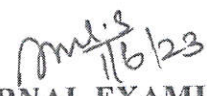
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ABSTRACT

Analog switches are mounted on the walls. Operating them is a tedious task as they need to be physically pressed each time an appliance has to be powered on or off. This hassle is replaced by a smart technique that involves operating the switches through a Web Browser of a Mobile phone or a PC. The present smart switches available in the market are very expensive and also require additional devices like hubs for their working. This paper uses the Cloud and a Web Browser to control the manually operated switches. A cloud server is created for the environment where the switches are mounted. The switches are interfaced with NodeMCU which has an inbuilt Wi-Fi. It can use this to enable or disable the switches. The user communicates with the processor through the Web Browser. The processor then controls the switches based on the commands received from the user and also updates the user about the status of the switches after the control operation is performed to the cloud. The intensity of light, the speed of the fan and other devices can be controlled using the Web Browser.