



GIRIPRASATH UTHAYAKUMAR

ELECTRICAL AND ELECTRONICS ENGINEER

CONTACT DETAILS

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PONNAGAR, METTUR DAM,
SALEM DISTRICT,
PINCODE:63401.

LANGUAGES

- English
- Tamil

TECHNICAL SKILLS

- MATLAB
- PCB Assembling & Debugging
- Electrical equipment testing and maintenance.
- C

HOBBIES

- Pencil sketching
- Chess

CLUB

- Member of Entrepreneurship Development Club.

CAREER OBJECTIVE

To be a successful professional in a prestigious company and to achieve the objectives of the company with honesty and fairness and to continuously upgrade my skills and knowledge.

EDUCATION

Sri Ramakrishna Engineering College, Vattamalaipalayam, Coimbatore.
affiliated to Anna University BE-EEE | May 2023 (Year of Graduation)

CGPA : 8.2

PROJECTS

- 'Design And Development Of Modified SEPIC Converter For BLDC Drive'(March 2023)

This project is to compare and analyze with various converters and to prove Modified SEPIC Converter is suitable for BLDC drive system for better efficiency. Proposed system can offer higher efficiency compared to the conventional SEPIC converter. This is achieved by reducing the voltage stress on the switch and minimizing the switching losses.

- 'Distance indication with its positioning system'(March 2022)

This project is mainly focused in capability to detect the both distance and location of the object, it works in different lighting conditions.
Main component used: Arduino UNO, Servomotor, Ultrasonic sensor, Potentiometer.

- 'Automated dimmer dipper headlamp in a vehicle'(April 2021)

This project is focused on to keep the correct head lamp lighting intensity in accordance with the opposite vehicle light or any light source intensity on the road.

Main component used: LDR sensor, Comparator, Potentiometer.

CERTIFICATIONS

- NPTEL certification on Introduction to Industry 4.0 and Industrial Internet of Things (ELITE) Jan-Apr2021.
- NPTEL certification on Sensors and actuators (ELITE) Jan-Apr2022.

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QUALITIES

- Team management
- Collaborative
- Good in time

AREAS OF INTEREST

- Renewable energy.
- Sensor and actuators.
- Embedded system.

REFERENCE

<https://ieeexplore.ieee.org/document/10118204>

PUBLICATIONS

Presentation of research paper entitled with Design and Implementation of Modified SEPIC, ZETA, Cuk, Quasi Z-Source Converter for BLDC Drive System – A Comparative Analysis”- In 2023 IEEE Sponsored Third International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2023).

MODEL BASED DESIGN- PROJECT

- Autonomous Emergency Braking system(AEB)- May2023

It is an advance safety system designed to assist drivers in avoiding collisions by automatically applying the brakes when a potential collision is detected. This project assigned to design and develop the complete model based AEB system.

Roles and responsibilities: Worked on modeling via Simulink, originating and validating the functional requirement, followed documented approach for testing and validated test harness.

INTERNSHIP EXPERIENCE

Electrical Engineering Intern.

Planys technologies Pvt. Ltd. (Incubated at IIT Madras)

Duration: Oct 2022 to Jan 2023.

Responsibilities:

- Worked with ESC Module by Enhancing different PWM signals.
- Participated in site visits to assess electrical infrastructure.
- Collaborated with engineers to prepare technical reports and project proposals.

Gained Skills:

- PCB Assembly & Troubleshooting.
- Inventory Mangement.
- Arduino IDE.

CO-CURRICULAR ACTIVITIES

- Participation in Intra-college event **SAAVISHKAR'20**, “Water level Indicator by using transistors”.
- Integration of renewable energy and smart grid (virtual workshop).
- E-Mobility and Charging Infrastructure (virtual workshop).