



ABOUT ME

I am currently pursuing a B.E. in Electrical and Electronics Engineering, with a strong passion for technology and a drive to explore new opportunities. Committed to continuous learning and skill development. Adaptable, quick to learn new skills, and able to communicate effectively with diverse groups. Enthusiastic about contributing to collaborative efforts and finding innovative solutions.

INTERNSHIP

**National Institute of Technology - Tiruchirappalli - Intern****July 2024 - Aug 2024**

The Perturb and Observe (P&O) algorithm is a popular MPPT method used in PV systems to maximize the power output by continuously adjusting the operating point of the PV panels.

**Safvolt SwitchGears Private Limited - Coimbatore - intern****Jan 2024 - Feb 2024**

I learned about various switchgear components, including different types of circuit breakers (MCCB, ACB, VCB) and their applications, as well as the roles of contactors and relays in controlling electrical circuits.

**PanTechAI Academy - Intern (online)****July 2025 - present**

Worked on ARM-based embedded system design, firmware development, and peripheral interfacing. Gained hands-on experience with ARM Cortex-M series microcontrollers, real-time debugging, and peripheral communication protocols.

EDUCATION

**Bachelor of Electrical and Electrical Engineering** 2022 - present  
KPR Institute of Engineering and Technology Coimbatore.  
GCPA : 8.78 upto 6<sup>th</sup> Semester

**Government Higher Secondary school,Kalapatti, Coimbatore.** 2019- 2022  
SSLC : 85% | HSC : 86%

AREA OF INTEREST

- Embedded System
- Renewable Energy
- Networking

PROFESSIONAL MEMBERSHIPS

- IEEE Power & Energy Society - Member
- IEEE Control System Society - Vice Chair
- SSEM - Member

PROJECTS

**1. Student Record Management System****Jan 2023 - April 2023**

**Description :** A menu-driven program that allows you to add, delete, search, and display student records using file handling. Key Concepts: Structures, File I/O, Functions, Pointers

**2. Smart Home Energy Meter****Jul 2024 - Sep 2024**

**Description :** Measures electricity usage in real-time and uploads data to a cloud dashboard via Wi-Fi. Helps in optimizing energy consumption.

**3.Battery Thermal Management for EV****Nov 2024 - May 2025**

**Description :** Designed a thermal Management of Battery for EVs. Integrated sensors and control logic for efficient battery temperature regulation.

SKILLS

**Programming (Basics)**

- C
- Embedded C
- Data Structure
- SQL.

**Tools**

- Power BI
- MatLab
- STM32 cube IDE
- Arduino IDE
- PVSyst
- Cisco Packet Tracer

**Protocols**

- SPI
- I2C
- UART
- HTTPS

CERTIFICATIONS

**NPTEL :**

- Introduction to Internet of Things,
- Fundamentals of Artificial Intelligence(Top 5% Topper).

**Coursera**

- The Arduino Platform and C Programming.
- Introduction to Databases.

ACHIEVEMENT

- Finalist - Techgium L&T
- Won 1st place - Circuit Debugging held by IIIT Kottayam
- Won 3rd place - Paper Presentation

SELF-DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge and belief.