



DHANUSH KUMAR G ELECTRICAL AND ELECTRONICS ENGINEER



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Srivilliputtur, Tamil Nadu

EXECUTIVE SUMMARY

B.E. Electrical and Electronics Engineering student. Adept at problem-solving, circuit design, and software development, with a keen interest in integrating hardware and software for real-world applications. Highly motivated to contribute to innovative tech-driven solutions, whether in core electronics or IT-based environments.

PROJECTS

Dumper Tyre Management System 12/2024

- Role: Sensor Calibration & UI Design
- Description: Designed and implemented a real-time tyre health monitoring system for heavy-duty dumpers to prevent accidents caused by tyre failure. Utilizing React Native, Firebase, ESP32, Arduino IDE and Sensors.

Smart Buck Converter 04/2025

- Role: Embedded Firmware Developer
- Description: Designed and developed a smart buck converter capable of automatically adjusting output voltage based on scanned RFID tags attached to electronic components. Utilized ESP32, LM2956 Buck Converter IC, multiplexers, resistors, RFID modules, and Arduino IDE for implementation and control.

TRAINING

Indian Institute of Astrophysics Kodaikanal

- Completed a short-term in-plant training focused on radio interferometry and its application in astrophysics. Gained exposure to how coordinated telescope arrays are used to capture high-resolution images of celestial objects, including black holes, through techniques employed by systems like the Event Horizon Telescope (EHT).

ACHIEVEMENTS

Finalist, Smart India Hackathon 2024

- Selected among top teams nationwide to present a tech solution in the Grand Finale round.

CERTIFICATIONS

- Smart Grid: Basics to Advanced Technologies (NPTEL)
- Introduction to Industry 4.0 and Industrial Internet of Things (NPTEL)
- Computer Hardware (NAGA)

EDUCATION

- B.E EEE MEPCO Schlenk Engineering College. CGPA-7.39 2022-2026 Sivakasi
- HSC – Srivi Lions Matric . HR . Sec . School. 83% 2021-2022 Srivilliputtur
- SSC – Srivi Lions Matric . HR . Sec . School. 72% 2019-2020 Srivilliputtur

COURSES

- Programming in Java (NPTEL)
- Joy of Computing Using Python (NPTEL)
- C Programming (ALPHA)
- Solved 150+ Problems in Hacker rank

SKILLS

Java | C | C++ | Python | PCB Design | Data Structures

TOOLS & TECHNOLOGIES

KiCad | Arduino | Edge Impulse | Filmora

PERSONAL TRAITS

Adaptable | Socio-Friendly | Good Communicator | Problem Solving | Team Work

LANGUAGES

Tamil | Telugu | English