

# DHANUSH KUMAR G

## B.E Electrical and Electronics Engineer

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## EXECUTIVE SUMMARY

I am a motivated B.E. Electrical and Electronics Engineering student with a strong foundation in problem-solving, circuit design, and software development. Passionate about integrating hardware and software for real-world applications, I am eager to contribute to innovative technology solutions in both electronics and IT environments. My training and projects have equipped me with valuable skills that I am excited to apply in the tech field.

## PROJECTS

### Dumper Tyre Management System 12/2024

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

### Smart Buck Converter 04/2025

- Role: Developed Hardware and Code
- Designed and developed a smart buck converter capable of automatically adjusting output voltage based on scanned RFID tags attached to electronic components
- Utilized ESP32, LM2596 Buck Converter IC, multiplexers, resistors, RFID modules, and Arduino IDE for implementation and control

## TRAINING

### In-plant Training 06/2025

#### Indian Institute of Astrophysics Kodaikanal

Focused on advanced astrophysics techniques

- 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)

## EDUCATION

### B.E. Electrical and Electronics Engineering CGPA-7.39

#### MEPCO Schlenk Engineering College

 2022 – 2026  Sivakasi

### HSC

83%

#### Srivi Lions Matric. H.R.S. Sec. School

 2021 – 2022  Srivilliputthur

### SSC

72%

#### Srivi Lions Matric. H.R.S. Sec. School

 2019 – 2020  Srivilliputthur

## KEY ACHIEVEMENTS

### Finalist Smart India Hackathon 2024

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

## COURSES

### Programming in Java (NPTEL)

### C Programming (ALPHA)

### Joy of Computing Using Python (NPTEL)

### Solved 150+ Problems in Hacker rank

## SKILLS

### C/C++

### Java

### Python

### PCB Design

### Data Structures

## TOOLS & TECHNOLOGIES

### KiCad

### Arduino

### Filmora

### Edge Impulse

## LANGUAGES

### Tamil

### Telugu

### English

## CERTIFICATIONS

### Smart Grid: Basics to Advanced Technologies (NPTEL)

### Introduction to Industry 4.0 and Industrial Internet of Things (NPTEL)

### Computer Hardware (NAGA)

## INTERESTS

### ★ Volunteering

As an Office Bearer of NSS, Conducted multiple community service camps focused on cleaning nearby villages, teaching school students, and organizing tree plantation drives