

# DHANUSH KUMAR G

## B.E Electrical and Electronics Engineer

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[www.linkedin.com/in/dhanush-kumar-g-752191246](https://www.linkedin.com/in/dhanush-kumar-g-752191246) [Srivilliputtur](#), Tamil Nadu



### 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. HRS. Sec. School**  
[2021 – 2022](#) [Srivilliputtur](#)

SSC [72%](#)  
**Srivi Lions Matric. HRS. Sec. School**  
[2019 – 2020](#) [Srivilliputtur](#)

### 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