

# ARUNESH E

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## PROFESSIONAL SUMMARY

I'm a final-year engineering student with an interest in backend development, web UI design, and data-driven solutions. I also have a strong focus on Electric Vehicles and am looking forward to applying my engineering skills to solve real-world problems.

## EDUCATION

B.Tech Electrical and Electronics Engineering (Specialization in Smart Grid and Electric Vehicles)

SASTRA Deemed University

2022 – 2026

## SKILLS

**Programming & Tools:** C, C++, Java, Python, SQL, Git, GitHub, MySQL, VS Code

**Web & UI/UX:** HTML, CSS, JavaScript, Figma, Responsive Design, UI/UX Principles

**Electrical:** MATLAB, Simulink, Power Electronics, Converters, OBD Systems

**Soft Skills:** Problem Solving, Teamwork, Time Management, Quick Learning, Self-Motivated

## PROJECTS

### 1. Automobile Spare Parts Inventory System | C++

*Developed an inventory system handling sales, stock, profit, and customer loyalty using file I/O and CSV-based logic*

### 2. EV Charging Station Managing System | Java (In Progress)

*Console app to manage EV owner data, vehicle profiles, slot bookings, and billing. Calculates charges based on kWh consumed using file-based storage and modular OOP design.*

### 3. Personal Portfolio Website | Figma

*Designed a mobile-responsive portfolio site hosted on GitHub with custom branding and a clean UI.*

### 4. SOC Estimation of Li-ion Batteries using Extended Kalman Filter | MATLAB

*Estimated EV battery SOC using Extended Kalman Filter on real-world data, focusing on accuracy under dynamic load conditions.*

## PROFESSIONAL EXPERIENCE

### Intern - Testing and Commissioning of Electrical Equipment

L&T Construction | Dec 2024 – Jan 2025 | Chennai

- Assisted in on-site testing and commissioning of substations, transformers, and diesel generators.
- Ensured compliance with EHS protocols and workplace safety standards.

## AREAS OF INTEREST

- Electric Vehicles – Innovative design, On-Board Diagnostics (OBD), and hybrid EV systems for two-wheelers
- Data Analytics – Data-driven decision-making, pattern analysis, and visualization
- Web Design & Development – UI/UX design, front-end implementation, and AI-assisted development workflow

## PROGRAMMING PRACTICE

Solving DSA problems on LeetCode in Arrays, Recursion, Dynamic Programming, and OOP patterns

## WORKSHOPS

### Semiconductor Characterization

Conducted by the Ministry of Heavy Industries, Government of India, at SASTRA University

- Hands-on Experience in Semiconductor Fabrication