SHAILESH. A

Electrical and Electronics Engineering
Final Year (2026)

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CAREER OBJECTIVE

Final-year Electrical and Electronics Engineering student (2026) seeking an entry-level Assistant Testing Engineer role in HV/LV electrical systems and transmission substations. Strong foundation in power systems, electrical machines, and electrical safety, with practical exposure to electrical measurements and system assessment. Eager to gain hands-on experience in testing and commissioning of power infrastructure projects

EDUCATION

Vel tech Multi Tech Dr Rangarajan Dr Sagunthala enginnering college
Bachelor's Degree in Electrical and Electronics Engineering
2022 – 2026

Jaya matriculation higher secondary school
2020 – 2022

TOOLS

- Ki-CAD-PCB Design
- Auto CAD Electrical-Layout
- Matlab-Simulation
- Blender-3d
- Figma-2d
- Proteus-Simulation

PROGRAMING

- C & C++ Programming
- Embedded C programming
- Python
- SQL
- Java

CERTIFICATIONS

- AutoCAD
- Embedded System using IOT
- SCADA
- Python Programming
- C and C++ Programming
- MYSQL
- MS-Office

INTERNSHIPS

1.Electrical and Automation Engineer

Centum Controls Pvt Ltd | 2024

- Gained hands-on experience in PLC and DCS programming, troubleshooting, and integration.
- Worked with MCC panels and SCADA software for real-time system monitoring and control.

2.Electric Vehicle Design & Development

National Small Scale Industries Corporation Pvt Ltd |2024

- Contributed to the design and testing of electric vehicles, focusing on powertrain systems, battery management, and vehicle control algorithms.
- Developed practical knowledge of automotive technology and electrical engineering in a fast-evolving sector.

PROJECTS

1.Electrical Battery Monitoring and Safety Protection System

Tools & Technologies: *ESP32 MATLAB | Embedded C | IoT*

Developed a battery monitoring and protection system to measure voltage, current, and temperature parameters in real time, with automated thermal protection and safe shutdown during abnormal operating conditions.

2.Electrical Energy Monitoring and Load Analysis System

Tools & Technologies: *ESP32 | KiCad | MATLAB | Embedded C | IoT*

Designed an electrical energy monitoring system to measure voltage, current, and power consumption in real time using sensor-based measurements, with load switching capability for controlled operation and system assessment

3.Roadside Parking Violation Detection and Enforcement System

Tools & Technologies: *Python- OpenCV | Tesseract OCR| Numpy | Diffib | Twilo*

An intelligent system designed to automatically detect roadside parking violations using computer vision and alert authorities for enforcement. It enhances urban traffic management by reducing manual monitoring and ensuring compliance with parking rules.

TECHNICAL ACTIVITIES

1.Campus Energy Audit

Conducted a comprehensive energy audit in the college campus to analyze power usage and identify energy-saving opportunities. Involved in data collection, load analysis, and efficiency improvement recommendations.