PRAJWAL SACHIN MAHADIK

Electrical Engineering Student

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Education

Bachelor of Engineering in Electrical Engineering **2027**

P.E.S. Modern College of Engineering CGPA: 7.64/10

Technical Skills

Electrical Testing: HV/LT panel testing, primary injection testing, high-voltage testing, Megger testing, relay and circuit breaker functional testing.

Programming & Tools: Python, MATLAB, AutoCAD Electrical fundamentals, MS Excel, VS Code

Other Technical Skills: Battery and Battery Management Systems (BMS), EV fundamentals, renewable energy fundamentals, CAN communication Protocol (learning).

Internship Experience

Production & Quality Check Intern **Jan 2026 – Feb 2026**

VIDYUT CONTROLS & AUTOMATION PVT. LTD., Pune

- Participated in the production, assembly, testing, and quality inspection of HV and LT electrical panels.
- Performed testing activities, including primary injection, HV, Megger, and functional testing of panels and protection systems.
- Inspected panel wiring, component installation, and internal layouts to identify assembly issues and verify workmanship.
- Examined electrical components including VCBs, ACBs, CTs, PTs, and protection relays during panel inspection and testing.
- Assisted in maintaining testing records and supporting customer inspections to ensure panel quality and readiness.

Academic Projects

BAARS – Barcode Attendance and Recording System

- Developed an ESP32-based automated attendance system using a barcode scanner for student identification and attendance recording.
- Designed a web-based attendance interface using HTML, CSS and JavaScript for managing student records.
- Integrated Firebase Firestore for real-time storage and retrieval of attendance data, connecting the hardware, web interface and cloud database.

RSM Investigation of Equivalent Series Resistance in an Asymmetric Supercapacitor *Ongoing*

- Planning an investigation of Equivalent Series Resistance (ESR) in an asymmetric supercapacitor using Response Surface Methodology (RSM).
- Studying the effects of MnO_2 percentage, electrode loading and activated carbon surface area (SSA) on ESR.
- Planning experimental work involving electrode fabrication, supercapacitor assembly, ESR measurement and statistical analysis using Minitab.

Certifications

- MATLAB Onramp – MathWorks
- AutoCAD Electrical Essentials – Source CAD
- Battery and Battery Management Systems (BMS) Course
- Python – Cisco
- Renewable Energy Sources: Fundamentals and Technologies – NPTEL *(Ongoing)*