

Rongeet Talukdar

M.Sc. Electrical Energy Engineering — Electrical & Automation Engineer
Kolkata, India

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Professional Summary

Engineer with M.Sc. Electrical Energy Engineering and experience in industrial automation, power system analysis, protection automation design, and power electronics. Skilled in PLC/DCS systems, I/O engineering, control philosophy development, power flow and short-circuit studies, and support for commissioning and testing. Experience in preparing technical specifications, engineering documentation, and collaborating with multidisciplinary teams. Strong analytical skills and a research-driven mindset.

Technical Skills

Power System Analysis & Protection: Load Flow Analysis, Short-Circuit Analysis, Contingency Analysis, Relay Coordination fundamentals, Transformer Diagnostics (FRA), Protection Interface Basics

Automation & Control: PLC, DCS, SCADA, I/O Engineering, P&ID Review, Control Philosophy Documentation

Design & Engineering Tools: AutoCAD, DIgSILENT PowerFactory, EMTP, MATLAB

Testing & Commissioning Support: FAT/SAT Coordination, Technical Test Documentation, Electrical System Checks

Programming & Scripting: Python, MATLAB

Standards & Compliance: IEC, ISA (working knowledge of IEEE concepts)

Professional Experience

Junior Manager – Automation and Instrumentation

ArcelorMittal Design and Engineering Centre, Kolkata

Sep 2024 – Present

- Prepared technical specifications and design documentation for industrial automation and electrical systems.
- Developed PLC/DCS I/O engineering deliverables aligned with process and control requirements.
- Reviewed P&IDs and participated in control philosophy development in multidisciplinary engineering reviews.
- Coordinated functional tests and supported FAT/SAT activities with vendors and on-site teams.
- Assisted in electrical distribution support and ensured documentation complied with IEC-based standards.

Intern – Power Electronics and EV Charging

Alpitronic, Bolzano, Italy

Nov 2023 – Feb 2024

- Supported modeling, analysis, and testing of high-power converters for EV fast-charging applications.
- Performed electrical testing, design checks, and troubleshooting under supervision.

Intern – Electrical Engineering

Crompton Greaves Power and Industrial Solutions Ltd., India

Jun 2018

- Assisted applied research work in electrical machines, power systems, and transformer testing.
- Gained exposure to design and manufacturing of medium and high-voltage equipment.

Projects

- **Photovoltaic System with Energy Storage:** Power flow modeling and monitoring interface for solar + battery systems.
- **Transformer Diagnostics:** Frequency Response Analysis (FRA) for transformer winding assessment.
- **Autonomous Line-Tracing Robot:** Arduino automation with sensor integration for navigation.
- **LVDT Design:** Industrial high-temperature displacement measurement solution.

Education

M.Sc. Electrical Energy Engineering, Università di Bologna

2020–2023

B.E. Electrical Engineering, Savitribai Phule Pune University

2016–2020

Certifications

Power System Analysis, Introduction to Power Electronics, Converter Control, Signals and Systems, Power System Protection and Switchgear

Languages

English (Professional), Hindi (Professional), Bengali (Native), Marathi (Working), Italian (Elementary)