

SATYAM THAKUR

Electrical & Automation Engineer

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CAREER OBJECTIVE

Result-driven Electrical & Automation Engineer with proven experience in the installation, commissioning, testing, and troubleshooting of high-power induction furnace systems and industrial automation control loops. Seeking a dynamic role to leverage expertise in PLC troubleshooting, thyristor firing circuits, and power plant operations to optimize efficiency, drive technological innovations, and ensure seamless industrial performance.

PROFESSIONAL EXPERIENCE

Electrotherm India Ltd.

2025 - Present

Electrical & Automation Engineer

- Successfully executed the erection, testing, and commissioning of heavy-duty induction furnaces including 10-ton (4MVA), 15-ton, and 22-ton systems.
- Troubleshoot and handled complex installation, wiring, and panel configurations for advanced induction furnace control units.
- Successfully managed power transformer field operations and configurations including 4MVA, 6MVA, and 9MVA setups.
- Diagnosed faults and optimized performance in control panels, IGBT/thyristor gate pulse firing circuits, and hydraulic power packs.
- Performed systematic routine maintenance, testing, and precision calibration of industrial sensors, CROs, and PLC-controlled networks.
- Assisted in on-site client technical support for breakdowns, preventive maintenance audits, and timely reporting.

NTPC Limited (Vindhyanchal Super Thermal Power Station)

July 2024

Graduate Engineering Intern

- Conducted routine maintenance and condition monitoring activities for high-voltage heavy electrical switchgears and systems.
- Assisted engineering teams in troubleshooting root causes for power plant system failures and operational downtime.
- Gained hands-on exposure to high-scale power distribution networks, circuit protection relays, and large-scale transformer operations.

MPPGCL (Bansagar Hydel Power Plant Station, Silpara)

June 2023

Engineering Intern

- Participated in assessment audits and performance maintenance tasks for hydro-power generation assemblies.
- Studied turbine operations, governor control mechanisms, dam safety protocols, and renewable energy integration frameworks.
- Gained practical insights into grid synchronization procedures, active/reactive load management, and busbar layouts.

EDUCATION

B.Tech in Electrical Engineering

Rewa Engineering College, Rewa (Govt. Institution) | RGPV Bhopal

Graduation: June

2025

CGPA: 7.25

Senior Secondary (12th Grade) | BSEMP

Percentage:

84.00%

High School (10th Grade) | BSEMP

Percentage:

83.20%

TECHNICAL SKILLS

Automation & Control: PLC (Programming & Troubleshooting), SCADA, HMI, VFDs

Electrical Engineering: Switchgear, Transformers (4MVA - 9MVA), Thyristor Firing Circuits, Power Electronics, Control Panels

Software Proficiency: MATLAB, Simulink, AutoCAD Electrical, MS Office Suite (Excel, PowerPoint, Word)

KEY ENGINEERING PROJECTS

Highway Power Generation using Piezoelectric Plates (*Minor & Major Project*)

- **Objective:** Designed and developed a renewable clean energy generation model utilizing piezoelectric crystal sensors to capture mechanical strain from moving vehicular traffic and convert it into electrical energy.
- **Tools & Skills Used:** MATLAB, Simulink, AutoCAD Electrical. Demonstrated a functional proof-of-concept prototype with actionable metrics for green energy harvesting infrastructure.

CORE COMPETENCIES & STRENGTHS

- Strong analytical, diagnostic, and swift problem-solving capabilities within challenging, live electrical systems.
- Highly adaptable to emerging automated technologies, harsh field testing environments, and complex industrial demands.
- Collaborative team player with comprehensive technical reporting and documentation experience in power environments.