Santosh Patil

Junior Electrical Engineer (Diploma Fresher)

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Personal statement

Diploma in Electrical Engineering (MSBTE, 2026, 82%) with six weeks of in-plant training at an LT panel manufacturer. Skilled in control wiring, insulation and continuity testing, reading electrical drawings and AutoCAD Electrical, and looking for a junior engineer or maintenance technician role in manufacturing.

Education

Diploma in Electrical Engineering (MSBTE) · Government Polytechnic, Kolhapur, Kolhapur, Maharashtra — 2023 – 2026
Grade: 82%

Class X (SSC, Maharashtra Board) in Secondary School · Rajarshi Vidya Mandir High School, Kolhapur, Maharashtra — 2022 – 2023
Grade: 79%

Projects

Automatic Power Factor Correction Unit with Arduino · Final-year project (team of 4) — Sep 2025 – Mar 2026

Low-cost APFC demonstration unit for small workshops.

- Switched capacitor banks automatically using current and voltage sensing, improving power factor from 0.72 to 0.95 on a test load.
- Won second prize among 34 entries at the polytechnic project exhibition.

Skills

Control panel wiring · Insulation resistance testing · Electrical drawing reading · AutoCAD Electrical · PLC basics · DOL and star-delta starters · Multimeter and clamp meter · MS Excel

Work experience

In-plant Trainee, Panel Assembly and Testing · Panchganga Switchgear Pvt Ltd, Kolhapur, Maharashtra — Jun 2025 – Jul 2025

- Assisted in wiring and ferruling 14 motor control centre and APFC panels as per single-line and control wiring diagrams.
- Carried out insulation resistance tests with a 1 kV megger and continuity checks on 60+ feeders before dispatch.
- Updated 9 panel drawings in AutoCAD Electrical after design changes from the shop floor.
- Followed LOTO and PPE procedures with zero safety observations during the training period.

Certifications

AutoCAD Electrical Certificate Course · Kolhapur CAD Training Centre — Dec 2025

PLC and SCADA Basics Training · Sahyadri Industrial Automation Institute — Apr 2026

Core skills

- Electrical safety (LOTO)
- Troubleshooting
- Shop-floor discipline
- Teamwork
- Shift readiness

Languages

English · Professional · Marathi · Native · Hindi · Fluent

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