Karthik Menon

Electrical Engineer

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PROFILE

Electrical engineer with 2 years of experience in industrial power distribution and panel design. Skilled in AutoCAD Electrical, load calculations and testing of LT panels. Helped cut commissioning time on a packaging plant by 4 days and reduced panel wiring errors by 25%. Looking for a design or projects engineer role in a power or automation company.

EXPERIENCE

Electrical Design Engineer, Kestrel Power Systems Pvt Ltd — Jul 2024 – Present
Kochi, India

- Design LT distribution panels and single line diagrams in AutoCAD Electrical for 15+ industrial customers.
- Calculate loads, cable sizes and breaker ratings, and check short circuit levels before drawings are released.
- Reduced panel wiring errors by 25% by creating a standard terminal numbering template for the wiring team.
- Support factory acceptance tests, including insulation resistance, continuity and relay checks, on 30 panels.

Graduate Engineer Trainee, Northwind Industrial Automation — Aug 2023 – Jun 2024
Coimbatore, India

- Assisted site commissioning of a packaging plant, including motor testing, VFD setup and earthing checks.
- Helped shorten commissioning by 4 days through a pre-checked termination list.
- Prepared as-built drawings and handover files for 6 completed projects.
- Recorded test results in standard formats that the customer signed on the same day.

PROJECTS

Solar rooftop monitoring system, Arduino, current sensors, MATLAB

- Built a monitor that tracked voltage and current of a 5 kW array and logged daily energy output.
- Presented the project at the college technical fest and won second prize.

Automatic power factor correction unit, Capacitor bank, microcontroller

- Designed a 5 step capacitor switching circuit that raised power factor from 0.78 to 0.95 on a lab load.
- Documented the circuit, test readings and bill of materials in a 20 page report.

EDUCATION

B.Tech Electrical and Electronics Engineering, NIT Calicut — 2019 – 2023
Kozhikode, India | 8.4 CGPA

SKILLS

AutoCAD Electrical | ETAP | MATLAB | PLC basics | Load calculation | Cable sizing | Earthing design | VFD setup | Panel testing | MS Excel

CERTIFICATIONS

PLC and SCADA Programming, Siemens Training Centre — Feb 2024

Electrical Safety and Lockout Tagout, National Safety Council — Oct 2023