

Electrical Engineer

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SUMMARY

Electrical engineer with seven years across PCB design and power systems, proficient in Altium and simulation tools, focused on first-pass-correct boards, power efficiency, and designs that meet IPC and IEEE standards on schedule.

EXPERIENCE

Electrical Engineer, Voltline Electrical Design

2020 – Present

City, ST

- Designed 18 multilayer PCBs in Altium with a 94% first-pass-correct rate, avoiding an estimated 11 respins.
- Improved a DC-DC converter's efficiency from 86% to 93%, cutting thermal dissipation and heatsink cost.
- Resolved signal-integrity issues on a 1.2Gbps interface through controlled-impedance routing and simulation.
- Reduced bill-of-materials cost 19% on a control board by consolidating components and resourcing parts.
- Led design reviews against IPC-2221 and IEEE standards, closing 100% of flagged items before fabrication.
- Brought up and debugged 30-plus prototype boards, documenting fixes that informed the next revision.
- Cut EMC test failures from four to zero by adding filtering and improving ground-plane layout.

Electrical Design Engineer, Meridian Power Engineering

2017 – 2020

City, ST

- Sized and specified power-distribution equipment for facilities up to 2MW per NEC requirements.
- Produced single-line diagrams and panel schedules for 25-plus projects with clean inspection sign-offs.
- Performed load calculations and short-circuit studies that prevented two undersized-feeder issues.
- Specified protective relays and breakers, coordinating settings to ensure selective fault clearing.
- Reduced design-revision cycles 25% by standardizing reusable schematic blocks across projects.
- Supported field commissioning, resolving wiring discrepancies that kept two projects on schedule.

EDUCATION

Bachelor of Science in Electrical Engineering

2013 – 2017

State University — City, ST

CERTIFICATIONS & LICENSES

Engineer in Training (EIT) · Professional Engineer (PE)

SKILLS

Altium Designer · PCB design · Circuit analysis and simulation · Power electronics · Signal integrity · EMC and filtering · NEC and power distribution · Schematic capture · Prototype bring-up · IPC and IEEE standards · Lab instrumentation · Cross-discipline collaboration