

Zakkere McCartney

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Summary

Detail-oriented and meticulous electrical design engineer with 5+ years of experience in troubleshooting electrical faults, reviewing design schematics, and reading layouts. Highly proficient in lab bench testing, lab equipment management, and project management. Skilled in coding, circuit design, and failure analysis.

Skills

Certified IATF 16949 internal auditor, Certified ISO9001 internal auditor, Codecademy Python 3 Certified, MATLAB, PCBA Design and Validation, Project Management, Failure Analysis, Lab Testing, Coding, Lab Equipment Management, HTML5, CSS, JavaScript

Experience

Electrical Engineer

Amphenol Advanced Sensors • Saint Marys, PA

01/2021 - Present

- Designed and tested circuit boards (PCBAs) for diverse environments, using Mentor PADS ECAD software, meeting AEC/IPC standards for customer applications.
- Guided a cross-functional team, by providing constructive feedback, to deliver projects on schedule and within budget.
- Developed and executed validation test plans, using IPC 16750 standards, to deliver products meeting customer requirements.
- Developed Python applications, to connect various pieces of lab equipment, increasing efficiency by decreasing validation time.
- Streamlined long term data collection, by developing a python application, that recorded and stored sufficient data to identify failure modes efficiently.
- Managed new product introduction, from an engineering perspective, for implementation, timeliness and completion.
- Effectively communicated design concepts, validation strategies, and corrective measures, through presentations, reports, and direct communication to stakeholders, ensuring clear and consistent communication throughout the design lifecycle.
- Improved PCBA design review process, by developing an outline of proper component application, reducing the need for circuit redesign.

Supplier Quality Engineer

Amphenol Advanced Sensors • Saint Marys, PA

10/2018 - 12/2020

- Conducted Failure Analysis on customer returns, using lab equipment and FA techniques, identifying root causes and applying corrective measures.
- Completed engineering change orders, using an ERP system, to update BOMs with current components.
- Conducted both intercompany and external audits, using ISO 9001 and IATF 16949 standards, ensuring adherence to the standards in production.

Communication and Signals Supervisor

Norfolk Southern Railways • Harrisburg, PA

01/2015 - 09/2018

- Completed the Norfolk Southern Management program, through on the job training and coursework, to effectively organize and lead team members.
- Adhered to federal regulations, through direct supervision of team members, ensuring the proper operation of the signal system.
- Planned and executed assigned tasks, by managing a team of 20 employees, to achieve project milestones.

Education

Electrical Engineering

Penn State University • State College, PA