

EMMA JOHNSON

Electrical Test Engineer

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PROFESSIONAL SUMMARY

Results-driven Electrical Test Engineer with 5 years of experience in testing and validating electrical systems. Proficient in troubleshooting, circuit design, and performance optimization using advanced tools and methodologies.

WORK EXPERIENCE

Electrical Test Engineer

📅 Dec / 2021-Ongoing

Quantum Solutions LLC

📍 Phoenix, AZ

1. Optimized product performance to meet customer specifications, enhancing reliability and increasing sales by 7%.
2. Designed and tested schematics, layouts, and routing for circuit boards, implementing necessary engineering changes.
3. Developed and validated an active solar tracker using MATLAB/Simulink, improving energy capture efficiency.
4. Engineered RF transmission systems for remote-controlled vehicles, ensuring reliable data transfer to motors.
5. Collaborated with manufacturing and quality teams to assess and improve production processes.
6. Increased rugged computer reliability and production yield from 65% to 98%, significantly boosting company profits.
7. Conducted electrical characterization and evaluation of OEM components, ensuring compliance with specifications.

Electrical Test Engineer

📅 Dec / 2019-Dec / 2021

Silver Lake Enterprises

📍 Seattle, WA

1. Provided technical expertise in Nuclear Electrical Systems, ensuring compliance with safety protocols.
2. Led electrical testing and troubleshooting for Boeing force transducers, enhancing product performance.
3. Executed diagnostic checks on mainframes, identifying and resolving technical issues efficiently.
4. Developed calibration procedures for various test equipment, maintaining high standards of accuracy.
5. Supervised acceptance testing for solar array programs, ensuring successful project outcomes.
6. Contributed to the design qualification of electronic components for military unmanned aircraft systems.
7. Implemented automated test fixtures, integrating software development and circuit design for efficiency.

EDUCATION

Bachelor of Science in Electrical Engineering

📅 Dec / 2017-Dec / 2019

University of California, Berkeley

📍 Chicago, IL

Focused on electrical systems design, circuit analysis, and embedded systems.

SKILLS

Electrical Engineering



Programmable Logic Controllers



Supervisory Control and Data Acquisition



Power Electronics Design



ACHIEVEMENTS

- 🌟 Reduced testing time by 30% through process optimization.
- 🌟 Improved product reliability by implementing rigorous testing protocols.