

Richard Isom

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Professional Summary

Test and systems-focused engineer with 9+ years of experience across manufacturing, production engineering, hardware validation, analytics, and quality systems. Skilled in test procedure development, automation support, production optimization, and data-driven troubleshooting. Experienced supporting cross-functional engineering teams in high-reliability environments including EV manufacturing, medical devices, and industrial systems.

Experience

Expertech — Final Test Technician

Santa Cruz, CA | Jan 2026 – Present

- Execute and refine hardware validation and electronic assembly test procedures
- Analyze test data to identify defects, inconsistencies, and system-level failures
- Improve QA workflows, repeatability, and production test coverage for thermal reactor systems

Areias Systems — Electromechanical Technician

Scotts Valley, CA | Nov 2023 – Dec 2025

- Manufactured, tested, and performed QC on advanced controllers and medical device systems
- Supported engineering initiatives involving electrical systems and prototype development

Zero Motorcycles — Advanced Production Engineer / Production Engineer / Production Technician

Scotts Valley, CA | Nov 2018 – Feb 2023

- Supported NPI, automation, process control, homologation activities, and compliance testing for electric vehicles and production plant conformity
- Developed and revised manufacturing procedures, scripts, and production workflows

- Assisted with maintenance of production infrastructure and quality systems
- Performed manufacturing, testing, and QA of EV assemblies and subsystems

Evans Data Corp — Analytics & Research Project Manager

Scotts Valley, CA | Aug 2017 – Nov 2018

- Managed syndicated and custom analytics projects using quantitative and qualitative research methods
- Maintained analytics platforms and supported data-driven reporting initiatives

Technical Skills

Atlassian Tools • Data Analysis • Test Development • Root Cause Analysis • Hardware Validation • QA/QC • Manufacturing Systems • Production Engineering • Process Improvement • Automation Support • SQL/NOSQL • Technical Documentation

Education

California State University Monterey Bay — B.S. Computer Science

Seaside, CA | 2015 – 2017