

INTERIM OPERATIONS TEST SUPERVISOR / INTERIM TEST ENGINEER SUPERVISOR

Professional Profile

Hardware Test Engineer Solutions-driven, quality-focused and analytical test engineering professional with more than nine years' experience in electronic manufacturing services (EMS) industry. Highly capable of excelling in OEM hardware testing environment due to skills gained from experienced working with OEM engineers in contract manufacturing. In-depth expertise with scripting and programming to set up test equipment and perform automated hardware testing. Exceptional skills in data analysis, failure trend analysis and debugging to resolve bottlenecks and optimize processes. Adapt rapidly to new hardware, software and manufacturing environments. Technical expertise includes.

Qualifications

- Windows, Mac OS, Linux, UNIX
- Tools:
- MS Office (Word, Excel, PowerPoint, Outlook), C++, Java, .NET, MFC, Python, Shell, LabVIEW
- Proprietary Automated Test Equipment (ATE) / Fixtures, Nordson YESTECH FX-940 Automated Optical Inspection (AOI), ViTrox V810 / Agilent 5DX Automated X-ray Inspection (AXI), Dage X-Ray, Agilent 3070 / HP 3070 In-Circuit Test (ICT), Javelin 1004 Teradyne / Flying Scorpion FLS980Dxi Flying Probe Testers
- OEM, Composite Manufacturing (CM), Material Requirements Planning (MRP), Hardware Testing, Hardware Validation, R&D Testing, Prototype Testing, Process Standardization,
- Process Optimization, Continuous Improvements (CI), High Volume Manufacturing, Failure Analysis, Root Cause Analysis, Agile Development

Relevant Experience

Hand selected to be the operations test supervisor when the company needed a test head.

Volunteered to tackle problems at 5DX when no engineer was assigned.

Developed Python script to automate data collection at 5DX.

Experience

Interim Operations Test Supervisor / Interim Test Engineer Supervisor

February 2015 to May 2016 Northwestern Mutual 1/4 Leawood , KS

- Hand-picked to assist Test Manager and then to assist Production Manager during Test Manager absences.
- Guide and coach teams of eight test engineers and 40+ production operators and technicians.
- Partner with Production Manager and quality groups in gathering and analyzing daily output.
- Coordinate all test activities and interact with customers in following up on test issues.
- Collaborate with production team, monitoring daily activities to ensure timely completion of daily commitments.
- Supervise and mentor floor leads to ensure production team allocates time effectively for hot assemblies.
- Act as floating engineer, assisting other test engineers in handling complex issues and assisting with busy periods.
- Organize staff meetings on behalf of manager.
- Selected Contributions: Rapidly acclimated to new role, adapting to new responsibilities to become highly productive member of production team
- Volunteered to take ownership of underperforming accounts, taking on more accounts than any other test engineer due to exemplary account management skills.
- Instrumental in unifying test engineering group and improving test engineers' account management skills by proposing and implementing multiple new projects.
- Spearheaded development and implementation of standardized account management processes for test engineers.
- Designated as new product introduction (NPI) test engineer for test engineering group.

Senior Test Engineer

August 2013 to Current Collins Aerospace 1/4 Wilson , NC

- Perform setup and validation of test equipment for operators and technicians.
- Coordinate with customer focus team to address and resolve production issues.
- Liaise with team members and customers in presenting feedback on manufacturing issues pertaining to ongoing tests and enhancements to manual and automated tests.
- Conduct installation qualification (IQ), operational qualification (OQ) and performance qualification (PQ) on medical devices.
- Set up, install and validate manufacturing floor with minimal-to-no assistance and advise on improvements.
- Collaborate with RF engineers in debugging firmware.
- Provide training to operators and technicians on procedures, guidelines and proper use of checklists.
- Facilitate research, consolidation and analysis of data, and produce charts and graphs detailing results.
- Define failure trends and create debugging action lists for technicians.
- Conduct in-depth manufacturing floor root cause analysis (RCA).
- Selected Contributions: As team lead, planned and coordinated full life cycle of 5S and Lean Six Sigma projects.
- Orchestrated planning and execution of test area cleanup based on 5S principles.
- Conceptualized and implemented 5DX improvement plan and failure feedback loop.

NPI Test Engineer

April 2011 to August 2013 Collins Aerospace 1/4 Charlotte , NC

- Coordinated test engineering initiatives for multiple customers.
- Guided and coached operators and technicians, ensuring full understanding of procedures for assessing and resolving testing issues.
- Facilitated technical support for system builds, RMAs and testing on mobile, graphical and power supply products.
- Liaised with cross-functional departments to address testing issues and recommend NPI improvements for inclusion in design for testability (DFT) reports.
- Generated simplified reports for management and detailed test matrices for engineers.
- Validated final testing procedures and quality checks and verified mechanical parts.
- Delivered testing solutions and support for Quick Turn projects.
- Presented development team with feedback to optimize testing and address quality concerns.
- Assembled and configured stations for functional and final tests.
- Utilized various operating systems for testing and validation, including Windows, Tiny Linux and Android.
- Selected Contributions: Partnered with customer engineers to design, develop and improve test procedures.
- Formulated and implemented in-depth, yet straightforward test procedure instructions (TPI).

Test Engineer

March 2008 to March 2011 CTS / EMS i¼ City , STATE

- Coordinated research and resolution of all test-related issues for system and manufacturing testing.
- Provided guidance, training and certification to test operators.
- Delivered technical support to swing shift technicians, ensuring quality of multiple box-build lines and adherence to daily quota.
- Isolated and addressed root cause of problems on production line.
- Directed in-circuit, functional and box-build system tests.
- Developed and updated product test logs.
- Analyzed customers' schematics in troubleshooting products.
- Selected Contributions: Steered design, development and support of Automated Optical Inspection (AOI) programs.
- Built strong relationships in working closely with test, process and quality engineers to address issues with failed units.

Test Engineer

August 2006 to March 2008 Niveus Media i¼ City , STATE

- Partnered with project manager and engineers to develop current hardware and software builds for products.
- Directed burn-in implementation and white-glove service.
- Installed and configured product operating systems.
- Designed and deployed RAID servers and performed IO testing.
- Regularly updated software and operating systems.
- Thoroughly assessed all components and ensured all hardware parts were installed correctly via checklists.
- Conducted verifications to ensure product hardware corresponded with attached sales order and SKU.
- Participated in weekly meetings with engineering department to review ongoing RMA problems and facilitated rapid turnaround with technical support.
- Maintained and updated product SKUs, serial numbers and sales orders in database.
- Conceived and produced customized testing procedures and flowcharts.
- Drove development and implementation of highly efficient test procedures, sequence diagrams, checklists and flowcharts in Microsoft Office.
- Championed design and delivery of in-depth RMA inspection sheet procedure.

Education

Bachelor of Science : Computer Science San Jose State University i¼ City , State Computer Science

Professional Credentials *Lean Six Sigma Green Belt Continued. Continued.

Skills

- Hardware and software debugging, board and system level
- MS Office and experienced with excel data and charts
- Versatile and can adapt to many challenges
- Highly motivated to solve problems outside the scope of my responsibilities
- Address company bottlenecks and issues and tries to find solutions for them