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**Test | Manufacturing | Maintenance | Field Service**

*Success leading technical, manufacturing, test and field service engineering skills for high-profile organizations*

A fast learner Electronics and Communications Engineer with strong problem-solving skill. Developed expertise in testing, installation, preventative maintenance, repair, calibration and upgrade of manufacturing electro-mechanic equipment.Providing high-quality manufacturing support to the day to day operation with focus on maintaining and uptime of test and production equipment. In possession of a curious mind, always looking for continuous improvement and ensuring client satisfaction with a drive to see the solution work.

Highlights of Expertise

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| * Equipment Installation, Commissioning. Maintenance and Repair, HW/SW upgrade and Calibration of manufacturing electro-mechanic equipment * Equipment operation and maintenance training * Excellent peer and customer service skill * Authoring Engineering Procedures (Test, Operation and Maintenance) * High Computer skill – HW/SW repair | * Lean Manufacturing, Continuous Improvement, Cost Reduction and Wokflow optimization * Organizational, Leadership & Interpersonal Skills * Effective at working autonomously and with teams * Strong Verbal and written communication skills * Minitab, data analysis and presentation skill * Microsoft Office, SAP, PeopleSoft, MS Access * Web development – HTML, CSS and Javascript |

**Career Experience**

**SENIOR TEST ENGINEER** | **Cognex Corporation**

Mar 2014 to July 3, 2020

Providing high-quality manufacturing support to the day to day operation with focus on maintaining and uptime of test and production equipment.

**Key Responsibilities:**

* Field service work for 89 network-connected and computer controlled electro-mechanical test equipment and 36 label printers deployed at our subcontractor.
* Execute and lead equipment installation, qualification, software and hardware upgrade, fault-finding and repair, calibration, and maintenance.
* Provide support to address equipment and manufacturing issues via field visit, telephone, email, Microsoft Teams chat to an average daily 3 field service request.
* Prepare and send prompt technical reports and proposals; record, maintain and share repair history documentation. Ensuring all operations are compliant with Cognex specifications.
* Create Procedures and provide trainings to Engineers, technicians and operators about product assembly, equipment operation and maintenance.
* Sourcing, supply, and maintain spare parts.
* Rate supplier’s performance and suggest how to improve their performance.
* Qualify, include suppliers (jig and fixture fabrication, general merchandise) in AVL
* Lead the Tuesday Technical meeting that serves as a platform to discuss open and on-going evaluations, production issues and resolve equipment and yield issues that affects work order.
* Monitor and weekly discuss of yield addressing issues that resulted to yield drop.
* Main contact in providing technical support to sub-con production (NPI and mass-pro), Purchasing (Ireland), Engineering and Quality team of HQ (USA).

**Key Achievements:**

* Created a webApp that showcase equipment failure mode definition and fixes
* $49K rework cost savings after fixing the Focus parameter of Finch scanner product.
* Implemented preventative maintenance programs, leading to reduced downtime by 67%.
* Established the “Test Equipment Commissioning Procedure”. Accomplishing equipment setup by 8 hours (KPI target = 2 days) and a minimum of 80% GR&R grade.
* Established the “Test Program Qualification Procedure” targeting new program release in 1 day.
* Accomplished reduced equipment TAT from 6.83 to 2.5 hours.
* Remodelled the lens gripper in focus testing to reduce the focus failure from 4.3% to 1%.
* Redesigned the focus and final test nest of DM262, resulted to increased unit per hour (UPH) by 105% and 128% at focus test and final test respectively.
* Computer hardware upgrade and test parameter tweaks resulted to 21% UPH increase of DM60
* Attained 20% jig fabrication cost by qualifying multiple production jig fabrication suppliers
* Utilize Minitab to analyse, justify and propose solutions, resulted to the approval of proposed 26 software and 4 hardware modifications. It resolved testability and equipment efficiency issues.
* Analysed test data, executed, evaluated and qualified new test program as a member of Kestrel Laser Aimer Red-X Project, achieved US$55K savings rework cost. Achieved Red-X Apprentice Certification in Cognex USA.
* Utilize Web Development knowledge to put the equipment downtime encountered in database. It’s locally accessible and target to educate the technician supporting the line.

**SENIOR TEST ENGINEER |** **PT. Sanmina**, Muka Kuning, Batam, Indonesia

January 2013 to March 2014

Pt. Sanmina is an EMS that manufactures Printed Circuit Board Assembly (PCBA) to Box build products. Reported to Test Engineering Manager, appointed to lead three Engineers and 27 Technicians whose responsibility was the delivery of 24/7 support which includes setup, qualification, preventative maintenance, calibration and troubleshooting and repair of test equipment on three floors of test operation.

**Key Responsibilities:**

* Equipment management including installation, qualification, preventive maintenance, hardware and software upgrade, calibration, as well as troubleshooting and repair of test equipment.
* **Similar job description in Pt. PCI Elektronik Internasional**

**Key Achievements:**

* SCSI to SATA HDD conversion on 5DX machines; achieved US$3055 annual costs savings.
* Implemented paperless, database driven ICT failure diagnosis protocol in Sanmina, earning annual revenue of US$5000.
* Multiple test pin vendors qualification, resulted to US$3900 in annual cost savings.

**LEAD TEST ENGINEER |** **PT. PCI Elektronik** **Internasional**, Muka Kuning, Batam, Indonesia

August 2005 to January 2013

Pt. PCI is an EMS company that designs and manufactures PCBA to box build solutions for customers from the automotive, industrial weighing scales, household appliances, fitness equipment, and medical products industries. Reported to the Engineering Manager; Supervised Two-Test Engineers and 12 Technicians to support 24/7 production test operation; Managed one Debug Engineer and 15 Technicians who were assigned the responsibility of repairing defective printed circuit boards.

**Key Responsibilities:**

* Lead the Test Engineering, ensured efficient equipment management including installation, qualification, preventive maintenance, hardware and software configuration, calibration, as well as troubleshooting and repair of test and production equipment.
* Support production by making sure test and production equipment are in top condition to ensure product quality and OTD.
* Root causing production issues, lead and participate in the investigations, evaluations, recommend and implement solutions.
* Product testing, failure analyses and repair.
* Organized and officiated tactical meetings with subordinates to ensure goals are clear to the team.
* Conduct cycle time study; defining line bottle neck and participate in the line setup ensuring test stations corresponds to cell type | one-piece flow manufacturing
* Constant work with customers, NPI and Design Engineers to define product requirement.
* Constant work with Production, Process and Quality Engineers to define the plan of execution.
* Liaise with suppliers for new and retrofitting jigs and fixtures requirement.
* Release part failure analysis for feedback to supplier (NCR)
* Research of new innovative technologies, leads projects for process improvement and cost reduction purposes; monitor and improve test and production processes.
* Create and maintain Procedures, BOM, Product drawings, process flow charts and Schematics
* Trained Engineers, Technicians and operators for product assembly and maintenance of test equipment.
* Qualify and include suppliers (jig and fixture fabrication, general merchandise) in AVL
* Prepare and send prompt technical engineering reports and proposals; record, maintain and share repair history documentation. Ensure all operations are compliant with customer’s strict regulatory requirements.
* Participate in production line design setup, compute machine capacity
* Participate during internal, Customer and System audits.
* Initiate training for subordinates
* Evaluate subordinate performance
* Budget and approve overtime and maintenance expenses
* Dispatched for product transfer and to resolve equipment and product issues in different customer sites (USA and China) and overseas equipment training (Singapore).

**Key Achievements:**

* Established the system which accurately identified the cause of product failure. Resulted to US$16K annual savings; Achieved Lean Six Sigma Green Belt Certification (LSGB-SI-32032-C).
* Multiple test pin vendors qualification, achieved US$3500 in annual cost savings.
* Developed Teradyne ICT relay cards repair method; achieved S$1900 savings per relay card; average 3 relay cards per year
* Qualified multiple equipment calibration suppliers, it reduced annual cost by US$5000.
* Used MS Access to develop a barcode scanning program capable of detecting label duplication.
* Designed GE’s cooktop functional tester.
* Dispatched for product transfer and to resolve equipment and product issues in different customer sites (USA and China) and overseas training (Singapore and USA).
* Established the system which accurately identified the cause of product failure. Resulted to US$16K annual savings; Achieved Lean Six Sigma Green Belt Certification (LSGB-SI-32032-C).
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* Used MS Access to develop a barcode scanning program capable of detecting label duplication.
* Designed GE’s cooktop functional tester.
* Dispatched for product transfer and to resolve equipment and product issues in different customer sites (USA and China) and overseas training (Singapore and USA).
* Authored numerous Test Engineering System and Work Instructions (Test Equipment Buy-Off, Test Equipment History, various Test Equipment Operation and Preventive Maintenance, Software Qualification and Control, Golden Sample Qualification, and Product Failure Analysis Procedure)

Additional Experience

**Test Engineer** (Dec 2002 to Sep 2004) ▪ Samsung Electronics, Calamba Philippines

**Test Engineer** (Aug 2000 to Dec 2002) ▪ Ionics EMS Incorporated, Cabuyao, Philippines

**Education & Credentials**

Technological Institute of the Philippines, Quiapo, Manila, 1995 to 2000

**BACHELOR OF SCIENCE IN ELECTRONICS AND COMMUNICATIONS ENGINEERING**

***Technical Proficiency****:* MS. Office Suite (Access, Word, Excel, Word, PowerPoint, Visio); Windows; MacOSX; Jetbrains Dotpeek; dnSpy; Minitab