
Edward J. Faranda II

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Summary

Quality conscience, detail oriented, manufacturing engineer, with a hands on approach to overall process improvement and development. Motivated with excellent communication skills and a dedicated team player. Qualifications include:

- Safety /Diversity Training
- High Volume, Build-to-Order (BTO) Processes
- Just-In-Time (JIT) Manufacturing and Quality Management (TQM)
- Production Line Cycle Time Calculations and line balancing.
- Training Material Development
- Training Evaluation/ Certification of Industrial Work Force
- A Delta T, Process Streamlining (Lean Manufacturing)
- Engineering/Manufacturing Procedure Development
- Familiar with IPC Standards for SMT Manufacturing (IPC-A-610, IPC-7525A, IPC-7912A, J-STD-033, S-816, etc.)
- Equipment Setup, Operation, and Maintenance Procedures
- Equipment and Computer Automation Planning
- Advance Surface Mount Component (ASMC) Placement, using state of the art placement equipment.
- Lead-Free (RoHS) SMT Reflow Process Development. Using SAC305.
- Manager a small group of technical personnel.

Education

Associate Of Science Degree in Electronics/Robotic

Professional Experience

QSC Audio Products, LLC, Costa Mesa Ca
Sr. Manufacturing Engineer

1999-Present

Reports directly to a Support Engineering Manager. Process Development and production line setup for manufacturing processes. Support production by providing manufacturing procedures to eliminate Delta's, stream lining the process and make the process robust and easily repeatable. Currently manage about 10 people ranging from line operators to Maintenance Engineers.

Supported production floor by providing automation programs and ensuring proper feedback is communicated back to engineering to increase manufacturability of products. Ensure that all procedures, processes, machine repairs, and maintenance are properly followed and conducted.

- Lead Engineer in New Product Introduction (NPI). Record all manufacturing problems and ensure that proper feedback to responsible departments. Report findings to department heads to ensure the problem are resolved.
- Production Line Development and Enhancements.
 - Conduct Analysis for new Production Equipment
 - Conducted study of products and developed production lines.
 - Order and placed equipment in production line and worked with vendors to ensure optimum performance of equipment.
 - Conduct simulations on products for cycle time analysis.
 - Write Capital Request with Return On Investment information

- Automated SPC monitor to ensure that production lines are operating within proper limits, ensuring machine performance.
- Developed manufacturing process to ensure proper operation of automation equipment and a robust and repeatable process.
- Review Bill of Materials (BOM) to ensure that all required materials are order and present in the factory at time of alpha and beta runs.
- Maintenance procedures developed to ensure proper operation of equipment and maintain a minimum MTBF (Mean Time Between Failures).
- Achieved Benchmark DPMO (Defect Per Million Opportunities) results in manufacturing process.
- Established documentation for conducting Preventive Maintenance on production equipment.
 - Used Manufactures Guide lines and personal experience on development of Preventive Maintenance Procedures.
 - Review Unscheduled Maintenance logs on quarterly bases to determine if any adjustments (additions/deletions/frequency) to the Preventive Maintenance procedure are required.
 - Trained personnel in the proper method of conducting Preventive Maintenance.
 - Audit personnel to ensure that Preventive Maintenance is done correctly.
- Major Accomplishments
 - Automated Product Changeovers on production line using barcodes and scanners
 - Automated Parts Changes to ensure proper setup and part replacement using barcodes and scanners.
 - Installed new production equipment with minimal impact to production.
 - Transitions from Leaded Solder paste to Lead-Free solder paste 3 months ahead of schedule.
 - Upgraded production computer servers to meet demands and lower the cost of server of expensive out-dated servers.
 - Optimized production line to achieve and exceed production demands.
 - Created a database that tracks machine repair history, spare parts usage, spare parts inventory, PM history and scheduling, solder paste usage, and other key maintenance issues and assist operators with product changeover with custom reports.
 - Performed CpK test on production equipment for machine certification to help achieve and document a world class manufacturing operation.
 - Developed and implemented BGA placement and process capabilities in factory. Evaluated different and recommended machines for purchasing. Wrote justification reports and Capital request, with Return-On-Investments. Coordinated installation, for all equipment with minimal production impact. Created and documented all processes and machine procedures for BGA Placement using industry standards. Machines included Panasonic BM231, VJ Electrix Summit 750 Rework Station, Smart Sonic Screen Washer and Dage X-Ray system.

Xerox Corporation, El Segundo Ca
Sr. Process Engineer

1988-1999
1993-1999

Develop and implement process to improve production throughput and eliminate Delta's in manufacturing process.

- Develop Procedures for ISO 9002.
- Automated SPC process and improved FPY (First Pass Yields) by 80%
- Automated Machine Changer over and improved accuracy of machine setup. Virtually totally eliminating machine setup problems.
- Placement of fine pitch, BGA, Flip Chip, and other various types of Surface Mount components.
- Placement of odd form through-hole component using custom deigned Robotic Work cells using Pin-Though-Paste reflow methods.

Production Equipment Engineering

1988-1993

Conducted machine repairs, maintenance and preventive maintenance for production equipment.

Professional Training

Panasonic MVIIIF, SPPV, MPAV, MVII, BM series, AVK, MPA Series, MV150 and RHIII
Production Analysis Line Management and Productivity Enhancements
A Delta T – Process Steam lining and Process Enhancements
Universal GDM and GSM Programming and Maintenance
Dage X-Ray System Operation & Programming
Panasonic PanaPRO and PanaCIM Software
Franklin Time Management
SPC Process Development

Computer Skills

Microsoft Office Professional Products
Basic Computer Repair and Diagnostic
Microsoft Small Business Server 2003
Microsoft Access Visual Basic
Microsoft Excel Visual Basic
Microsoft Visual Basic
AutoCAD Light
Networking

Publication

Author of "[Cutting Machine Programming Time](#)" - Circuits Assembly (2008, August 1)

Patents

[Patent 5,434,559](#) for the electronics design of the PPAT256. A Personal property Anti-Theft device used to protect small expensive electronics devices.

Hobbies

Los Angeles Sheriff's Department Reserve Lieutenant
Computer Repair, building and programming
Boating, Water Skiing and Jet Skiing
Computerize Lighting Displays
Qualified VFR Pilot
Sky Diving
Music

Awards

Long Beach Lion's Cub for Industrial Arts
Toyota Medal of Merit in Industrial Arts
Proctor Award in Electronics
Employee of the Month