

Caleb D. Brochu

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Professional Experience

Spectracom, Rochester, NY

Manufacturing Engineer

(August 2017 – May 2018)

TECHNICAL RESPONSIBILITIES

- Responsible for creating and maintaining process details and test procedures
- Work with design engineering to ensure products are designed for manufacturability and assembly
- Responsible for creating and implementing Material Review Board, First Article Inspection, and Failure Modes Effect Analysis
- Train assemblers and technicians on new processes, products and product revision updates
- Responsible for issuing internal and supplier corrective actions
- Assist design engineering in creating and updating mechanical designs and assemblies utilizing Inventor and AutoCAD
- Understand electrical circuits with ability to troubleshoot

PROJECTS

- Lead a process improvement initiative to develop an automated test database standardizing test process across product lines
- Developed and implemented floor layout utilizing lean manufacturing practices to improve flow and reduce the impact of bottlenecks
- Designed and created test fixture to ensure product meets IP67 standards

TEAMWORK AND LEADERSHIP

- Member of new product development team responsible for the qualification and release of new products
- Responsible for conducting supplier audits and issuing supplier corrective actions.
- Responsible for managing first article inspection process on sustaining product
- Manage MRB and First Article inspection process
- Member of team responsible for implementing AS9100

JMA Wireless, Liverpool, NY

Manufacturing Quality Engineer

(July 2015 – August 2017)

TECHNICAL RESPONSIBILITIES

- Development and implementation of process improvement practices utilizing lean manufacturing tools
- Troubleshooting, determining root cause and implementing controls preventing reoccurrences
- Design fixtures and gaging applying GD&T utilizing Solidworks
- Responsible for the implementation and programming of Keyence IM 6225 for CNC production: decreasing first piece and in-process inspection time
- CMM/Vision Systems programming
- Create and maintain documentation for quality inspection plans and procedures
- Process Capability Studies on new product new and existing machinery, utilizing both Cp, Cpk and other SPC tools
- Perform Gage R&R's on measurement equipment to mitigate variability in the final product

TEAMWORK AND LEADERSHIP

- Managed quality auditors, technicians and interns to assist in projects and day to day operations
- Member of New Product Development Team: Head PFMEA to determine manufacturability, qualify and release new products.
- Worked with team to create and implement SQDC boards.
- Train operators and technicians on processes: Including SAP Quality Management System and measurement equipment

Fisher-Price, East Aurora, NY

Product Development Engineering Intern

(July 2014 – January 2015)

- Designed developed and implemented procedures and testing methods to ensure products meet cooperate, national and international safety and regulatory standards
- Performed mechanical and electrical testing on toy and associated product per product requirement documentation
- Created and maintained product requirement documents
- Assisted in product development to integrate quality and safety regulations
- Worked on long term projects to improve product design and quality
- Responsible for performing preventative maintenance, troubleshooting and calibration, as well as verification of gages
- Reviewed packaging, graphic files, and layouts to ensure compliance to products specs and safety operating procedures

Cannon Design, Grand Island, NY – Boston, Ma

Electrical Engineering Intern

(March – August 2013)

- Designed and laid out electrical engineering systems.
- Performed Revit and AutoCAD production of design drawings using corporate and national standards and references for power distribution systems, emergency power distribution systems, lighting systems, fire and security systems, and telecommunications.

Skills Summary

- SolidWorks, Inventor, AutoCAD, Revit
- Design for Manufacture/Assembly(DFM)
- Lean Manufacturing
- CMM/Vision System, Keyence IM 6225
- GD&T ASME-Y 14.5 2009
- Gage Design
- Root Cause Analysis
- Microsoft Office Suite
- Minitab
- Statistical Process Control
- ERP (SAP, SAP ByDesign)
- PLM (Arena)

Education

Rochester Institute of Technology, Rochester, New York

Program: Electrical Mechanical Engineering Technology

Degree: Bachelor of Science (2015)