

Erik Brinkopf

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(720) 421-2104

Professional Experience

Manufacturing Engineer, Alcohol Monitoring (SCRAM) Systems: Littleton, CO. *Aug '13 - Dec '16*

Seek improved technologies and methods to increase product performance, enhance product features and reduce component and production costs.

Create and maintain detailed 3D models, assemblies, technical drawings and testing reports that effectively communicate design intent using CAD (specifically SolidWorks).

Incorporate process measurements, failure analysis findings, and problem reports from the field to develop a comprehensive picture of overall product quality and communicate that across the organization.

Participate in the development and evaluation of new products. Ensure that quality plans and inspection techniques are defined for all new parts and assemblies. Provide design for manufacturability and design for test feedback early in and throughout the product development process.

Estimate production times, staffing requirements, and related costs to provide information for management decisions.

Review production jobs for improvement opportunities in areas such as cycle time, ergonomics, cost, efficiency and quality.

Improve product failure analysis and work closely with engineering to determine root cause of product failures and implement corrective actions.

Provide support to production, which includes recommending design changes to improve manufacturability as appropriate, reduce product build costs and component cost as well as support the selection and qualifying of vendors/suppliers.

Technician, Communication Test Design Incorporated (CTDI): Aurora, CO. *Jun '12 - Jun '13*

Ran basic computer based functional tests on set top boxes (STB) assemblies and sub-assemblies.

Board and components were disassembled; troubleshoot with O-scopes, V-meters, etc; and repaired/upgraded (ECN Modifications) with soldering techniques. Repairing units required following detailed wiring and technical assembly instructions, refurbishing protocols, and burn-in tests.

Professional Skills/Certifications

On the job training:

- Six Sigma and LEAN methodology
- IPC Certified in DVD -55C and A-600
- The use of oscilloscope, drill press, circuit design, vacuums systems, etc.

Preformed computer skills in Linux based and Window Operating System (OS)

- Coding practices in Latex using Kile, Mathematica and C++
- Software usage in Solidworks, InkScape, Labview, Mathcad, Microsoft Office Suite, ect...
- Cisco Certified in Fundamentals of Web Design (Adobe) and Computer Aided Design (AutoCAD '04)

Education

Masters of Science (M.S) Degree in Mechanical Engineering TBD
Colorado School of Mines, Golden, CO.

Bachelor of Science (B.S) Degree in Engineering Physics *May '14*
Colorado School of Mines, Golden, CO.

- Achieved a 2.960 GPA

Degree Certificate in Computer Aided Design *May '07*
Pikes Peak Community College, Colorado Springs, CO.