

JENNIFER CONRAD

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SUMMARY

Skilled Mechanical Engineer with an enthusiasm for manufacturing, and process engineering, highly detailed-oriented and self-motivated to accomplish project and organizational goals.



EDUCATION

Master of Science, Mechanical Engineering | University of Colorado, Denver

DECEMBER 2016

Bachelor of Science, Mechanical Engineering | University of Colorado, Denver

DECEMBER 2008



EXPERIENCE

Manufacturing Engineer | Advanced Thin Films, IDEX Corporation | Boulder CO

APRIL 2017 – OCTOBER 2019

- Applied LEAN and six sigma concepts to develop process improvements for manufacturing's super polish and double side polish processes. Utilized Kaizen events: identified opportunities, chartered, and led cross functional teams in development and implantation of sustainable improvements.
- Applied root cause analysis to derive failure modes and non-conforming product resulting in 7% reduction in COPQ. Evaluated and led corrective and preventative actions to improve manufacturing processes and factory production yields.
- Developed and performed design of experiments to improve and test the manufacturability of optics in fabrication.
- Led process optimization to result in 25% increase in first pass yield for double side polished optics resulting in significant on time delivery improvements.
- Managed daily production challenges in low volume/high mix manufacturing environment through coaching and guidance of 20+ coating and fabrication technicians.

Process Engineer | Well Master Corporation | Golden CO

MAY 2015 – APRIL 2017

- Championed implementation of quality system for oil and gas industry certification. Developed, trained, and implemented QMS manual through cross functional collaboration with quality, assembly, and vendors.
- Communicated with local and foreign suppliers on product quality performance and manufacturing processes.
- Led in the design and implementation of workflow processes, layouts, equipment SOPs and fixturing/tooling to improve testing efficiency and effectiveness.
- Coordinated and managed root cause analysis and corrective actions related to safety, quality, delivery and cost.
- Improved product quality by identifying manufacturing issues, developing cost-effective solutions and overseeing successful implementation into production.

Manufacturing Engineer, Contractor | GE Healthcare | Golden CO

OCTOBER 2014 – MAY 2015

- Provided technical leadership to assist production in resolving manufacturing and quality problems related to methods, processes, tooling, and equipment.
- Prepared engineering change requests, engineering change notices, bills of material, and engineering specifications.
- Managed cross-functional teams in developing and implementing RoHS certified product refurbishment and repair LEAN manufacturing lines.
- Created and managed validation and verification plans to ensure regulatory compliance of new product lines and qualification tests.

Manufacturing Engineer | BAND-IT, IDEX Corporation | Denver CO

JANUARY 2014 – OCTOBER 2014

- Advocated and drove manufacturing capital projects with cross-functional teams to improve on product line processes while managing within budget and time constraints. Provided ROI and payback analysis to justify capital expenditure.
- Managed manufacturing's continuous improvement process - prioritized request for process improvements, spare tooling and production optimizations.
- Responsible for creating manufacturing drawings and specifications for production machines and punch press dies for internal and external fabrication.

Sustaining Design Engineer | BAND-IT, IDEX Corporation | Denver CO

JUNE 2010 – JANUARY 2014

- Responsible for designing technical drawings for new product development and implementing continuous improvement to existing product and process documentation via an ECR process.
- Established and maintained manufacturing bill of materials and routing procedures for Manufacturing and Operations.
- Examined and dispositioned nonconforming product for acceptance based upon technical analysis, product quality and application.
- Collaborated with domestic and foreign suppliers to improve upon manufacturing feasibility and streamline processes.
- Participated with cross-functional departments to foresee and resolve exists engineering problems on new product development design and implementation.



SKILLS

- Process Improvement
- Root Cause/Countermeasure
- Development and Training
- SolidWorks
- MATLAB
- Microsoft Office