

LEE JADERBORG

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SUMMARY

Data-driven Continuous Process Improvement professional:

With a strong foundation in Six Sigma methodologies, my focus has been on enhancing manufacturing processes and ensuring rigorous quality management. Accomplishments include implementing manufacturing test KPI development and conducting ISO9001:2015 and Module D PPE internal audits, which have substantially boosted production efficiency and compliance with industry standards.

Leveraging statistical analysis and test process development in a team environment, I've helped strengthen supply chain performance through meticulous supplier quality audits and evaluations. Through continuous improvement efforts, I have spearheaded process enhancements that align with engineering change management systems, contributing to a culture of excellence and precision in manufacturing and sustaining engineering.

PROFESSIONAL EXPERIENCE

Head Rush Technologies Louisville, Colorado

2022-2024

Manufacturing/Sustaining Engineer – Quality Manager:

- Implemented manufacturing test KPIs to optimize production efficiency and quality control.
- Conducted Module D PPE internal audits to ensure compliance with industry standards.
- Conducted Supplier quality audits and supplier capability evaluations to enhance supply chain performance.
- Evaluated continuous improvement opportunities to identify and implement process enhancements through the engineering change management system.

FREEWAVE TECHNOLOGIES Boulder, Colorado

2014 – Jun 2022

Manufacturing Engineering/Quality Manager

Manage technical support team for manufacture of RF and IO devices for M2M and IoT markets.

- Worked with Core Team on successful ERP implementation to go live within a 5 month window.
 - Wrote the custom product configurator for Epicor ERP implementation.
- Managed multiple ISO 9001-2015 audits and certifications
 - Wrote quarterly management reviews as part of the QMS system for review with executive staff.
 - Wrote and published KPI Dashboard of quality metrics to track corporate quality objectives.
 - Implemented QMS quality software to support ISO activities, change management, and nonconforming materials management saving \$5K per year in software maintenance costs.
- Managed multiple nonconformance cases to successful resolution utilizing 8D methods both with Customers [private and government] and component suppliers.
- Drove data based Continuous Lean process improvement through development of key process metrics from existing data collection driving double digit increases in first pass rolled throughput yield and last pass rolled throughput yield increases from 46% to 92%.
- Implemented SPC controls in RF parametric testing driving real time FA response.
- Implemented data visualization projects on the manufacturing floor leading to a 30% increase in efficiencies.
- Lead successful implementation of new manufacturing line and processes resulting in a 60% reduction in scrap.
- Implemented enhanced FA on field returns to understand and proactively work product issues. This resulted in a reduction of product Return Rates from just over 3% down to <=.5% over the life of warranties.
- Supported multiple NPI through FMEA and DFM activities.
 - Work iterative FMEA/PFMEA activities to poke yoke designs for new products/processes.
 - Lead team in design and implementation of NPI process to support product development.

QUANTUM CORPORATION Shrewsbury, MA: Boulder, CO: Louisville, Colorado

1997 - 2013

Senior Design Engineer Advanced Development

- Team Lead on test, validation, and improvements for advanced GMR reader for 2 magnetic recording head development programs.
- Led GMR read head development evaluations by defining test requirements and providing complex data analysis to generate product quality improvement through both Static and Dynamic measurements of the GMR components.

- Delivered failure analysis results through complex tribology analysis data and measurements to the product development team via AFM, Tencor, Wyko, and SEM working with both internal and external resources to facilitate design quality improvements.
- Achieved real time access to parametric test data by creating automated data collection modules from flat file tester output to SQL database using SQL Server Business Intelligence System; providing data mining and reporting processes to facilitate predictive analytics on product evaluations.
- **Senior Design Engineer/Technical Program Manager/6 Sigma**
 - Managed multiple process improvement projects leading cross-functional teams to deliver on schedule and on budget.
 - Lead multiple continuous improvement activities.
 - Directed a 6 Sigma field service project team in design of a new software program to increase field diagnostics and repair capabilities for Automated Libraries with a goal of a 50% reduction in the NTF rate in returns.
 - Managed a cross-functional development team that could generate approximately \$5 mil/yr. cost savings through implementation of a patented closed loop control process algorithm for repairing magnetic recording heads in drive with no product disassembly and no real time test monitoring.
 - Delivered a 50% reduction in repeat return rates by implementing 6 Sigma DOE and predictive modeling results to generate design and process improvements for a data storage drive.
 - Reduced systemic field issue identification time by 75% in Data Storage automation by leading a 6 Sigma software process improvement team to mine Data Storage library logs into an engineering SQL database to provide sustaining engineers the ability to resolve global firmware or mechanical field issues from a total product pareto of failures.
- **Senior Design Engineer**
 - Led a wide variety of projects in Test, Drive, and Process engineering.
 - Resolved a critical assurance of supply issue within a 3 month time frame of a complex electro-mechanical component for a data storage product by sourcing, developing, managing, and qualifying a manufacturing team in China to successfully manufacture the product while implementing process improvements to reduce the repeat return rates by 15%.
 - Achieved a 65% reduction in false positive failures by mining and analyzing available data to model test improvements. Managed team Implementation of ORT [Ongoing Reliability Testing] improvements for a data storage manufacturing program in Asia.
 - Delivered on the implementation of an Electro/Optical/Mechanical Assembly Process line for 1.6 Terabyte data storage product recording head development by leading test and manufacturing teams at sites in China and Malaysia.
 - Increased process throughput yield 30% by leading a cross-functional team at an Asian manufacturing site through a 6 sigma based process improvement project in the process assembly development of a high track density and high linear density recording head to sub-micron level tolerances.
 - Eliminated critical failure mode on magnetic recording head by using FMEA methods to drive root cause analysis and generate improve product quality through both destructive and non-destructive analysis.
- **Manager Magnetic Recording Head Development**
 - Directed staff of 10 team members in Magnetic recording head development through multiple development programs with budgets up to \$250K. Managed MR Head product/process development of 600GB and 800GB data storage products within budget and on schedule. Planned workloads, Quality plan, design qualification activities, DVT activities, and FMEA.
 - Solved complex component tribology failure mode on magnetic recording head through hands-on direction of a cross-functional failure analysis team. Coordinated complex materials analysis, Metrology, and DOE efforts with both internal and external suppliers.
 - Implemented an Advanced Engineering head tester including hands-on design of new motion control system to facilitate more advanced FMEA techniques.
- **Principal Design Engineer**
 - Led the design, specification, test development, failure analysis, and qualification of Ferrite and MR recording heads for 4 consecutive magnetic recording head development programs including supplier qualifications, test process implementation, and plant audits in Asia.
 - Implemented manufacturing and process improvements by directing interaction with Asian based supply chain supporting supplier process and test implementations at multiple sites in China, Malaysia, Singapore, and the Philippines.

ADDITIONAL RELATED EXPERIENCE

STORAGE TECHNOLOGY, Louisville, Colorado
Manufacturing Design Engineer (Manufacturing Tooling Design for thin film head processes)

MAXTOR, Longmont, Colorado
Manufacturing Design Engineer (Manufacturing Tooling Design Head/ Drive integration)

PHI TULIP CORPORATION, City of Industry, California
Application Engineer (Tooling System Design)

EATON LEONARD TECHNOLOGIES, Carlsbad, California
Application Engineer (Tooling System Design)

PATENTS

Two patents in the tube and pipe bending industry.

Four patents in the Data Storage industry.

EDUCATION/ PROFESSIONAL DEVELOPMENT

Emporia State College - Emporia, Kansas

Kansas University - Lawrence, Kansas

Certificate in Six Sigma Green Belt.

Certificate in Lean Six Sigma Black Belt

Certificate in Project Management for IS/IT Professionals

Master Certificate in Six Sigma

Villanova University

Senior Member of American Society for Quality

ASQ Green Belt Certification #11203

ADDITIONAL TRAINING

Pro-Engineer, Wildfire, CREO, SolidWorks, C# ERP programming, Design of Experiments, MR/GMR Head Design, Fundamentals of Tape Storage, Certificate Courses in Project Management, SQL Server Business Intelligence, Quality Program Management, Statistics (SAS/JMP/Minitab), Report Builder integration to SQL database, and ANSI GD&T.