

Rishitha Kothulapuram

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Summary

Certified Lean Six Sigma Quality Engineer, skilled at lead initiatives ensuring exceptional product quality, streamline operations maintain compliance with industry standards while enhancing customer satisfaction through continuous improvement techniques.

Work Experience

Quality Engineer Co-op | Entegris Inc CO | Jan 2024 - Present

- Spearheaded qualification of 28 major components for FOUP, conducting **statistical techniques (SPC)** and **DOEs** for validation of dimensional accuracy reducing final assembly lead time by 8 weeks.
- Collaborated with cross-functional teams to reduce non-conformance parts performing **root cause analysis (5 Why,8D)** and implement corrective and preventive actions ensuring for quality control and reliability
- Executed **MSA (Guage R&R)** studies on metrology to perform dimensional and stack-up analysis ensuring inspection of FAIR evaluations and quality standards
- Designed product lines and purchased new equipment for ISO 7 implementing **process control plans** and **APQP tools** resulting in \$84,000 in cost reductions ensuring compliance with standards
- Created and maintained process specifications and engineering documents for **PPAP**, resulting in a 20% reduction in review time through change management document for senior leadership

Quality Engineer Co-op | Amazon Robotics Boston | Jun 2023 - Dec 2023

- Executed **risk analysis strategies** to mitigate potential issues on production line developing test procedures for raw materials and finished goods reducing cycle time by 2 weeks for EOAT production
- Initiated **work instructions, SOPs** and implemented **5S** and **visual management** reducing takt time by 30 minutes for assembly ensuring Quality Management System (QMS) on production line
- Collaborated with design engineering to inspect **GD&T analysis** and developed **PFMEA** to drive yield improvements, to meet all engineering requirements and managing customer complaints
- Created an **Excel-based tracking system** for returned goods to ensure issue claims/customer credits (RGAs) and manage **BOMs** while updating SAP, saving \$112,000 by reusing assembly materials
- Implemented **continuous quality improvement (DMAIC)** to repurpose discrepant material by integrating 3D VR simulation at workstations saving \$270,000 through stakeholder collaboration.

Manufacturing Engineering Intern | Bharath Manufacturing India | Feb 2021 - Jun 2021

- Applied **lean** and **kaizen** principles to streamline production processes, achieving cost savings by implementing efficient workflow, resulting in \$300 savings through internal audits
- Collaborated with team members to develop and implement process audits using **FMEA** and **Value Stream Mapping**

Quality Engineering Intern | Maruti Suzuki Pvt. Ltd India | Aug 2020 - Jan 2021

- Optimized assembly line by developing **Value Stream Maps to identify bottlenecks** and process improvements
- Employed Lean methods to **identify and eliminate waste**, resulting in significant cost savings of \$900 under mentorship
- Leveraged **Design for Manufacturing (DFM)** techniques to develop new automation methods for the painting line

Mechanical Engineering Intern | Electric Vehicle Training Program India | Sep 2019 - Apr 2020

- Designed and enhanced chassis and roll cage integrity by 13% using **CAD** and **FEA analysis**, improving vehicle safety
- Reduced costs by \$1060 implementing **DFMEA** on a chassis weld joint, enhancing project management activities
- Utilized **project management tools** (Gantt Charts, scope and timeline) to drive and lead project within deadline

Skills

Auto-CAD, Minitab, SolidWorks, Microsoft Office Suite (Word, Excel, Outlook), GD&T analysis, SAP, SPC, Process Capability Analysis, BOM Structures, 5S, Kanban, Visual Management, PFMEA, Gauges, Lean Six Sigma, CAPA, Fixture Design, Design of Experiments, Value Stream mapping, risk assessment, data analysis, Quality systems, technical problem solving

Education

Masters, Mechanical Engineering | Michigan Technological University Houghton, MI | Aug 2022 – Aug 2024

Bachelors, Mechanical Engineering | Methodist College of Engineering & Technology India | Sep 2017 - Aug 2021