
Summary

Experienced Mechanical Engineer with a strong background in project management, supply chain coordination, team leadership, manufacturing processes, and design optimization. Skilled in overseeing complex projects from concept to completion while managing cross-functional teams and collaborating with stakeholders. Known within organizations for delivering innovative solutions that enhance product performance, reduce costs, and elevate the overall efficiency of operations.

Professional Experience

Sr Mechanical Engineer – NuCurrent Inc, Illinois.

Dec 2021 – Present

- Served as Project Manager across 4+ diverse projects, focusing on risk assessment and resource allocation.
- Coordinated with 3 contract manufacturers in Asia, reducing production lead time by 18% and aligning with supply chain goals.
- Facilitated decision-making between EM, EE and ME teams, resulting in 12% improvement in product quality.
- Authored 20+ project-specific documents in JIRA, enhancing client communication and internal team clarity.
- Conducted weekly project status reports, keeping all stakeholders updated on project progress & risk mitigation plans.

Mechanical Engineer II – NuCurrent Inc, Illinois.

Nov 2020 – Dec 2021

- Oversaw rapid prototyping operations, reducing prototype development time by 20%.
- Redesigned 18+ customer CAD models to incorporate full wireless power system, aligning with project goals.
- Developed 15+ detailed device hardware & subsystem specifications, streamlining manufacturing processes.

Mechanical Engineer – GE Healthcare, Wisconsin.

Mar 2020 – Oct 2020

- Improved quality & cost-efficiency in new X-Ray Machine development, resulting 9% cost reduction.
- Designed and verified 6 key X-ray tube components in PTC CREO using top-down design approach, adhering to quality and manufacturing requirements. Managed parts, assemblies and drawings in PTC Windchill.
- Conducted tolerance stack-up analysis on 4 major assemblies, ensuring a 99% fit rate during manufacturing.

Continuous Improvements Engineer – Indiana.

Sep 2019 – Mar 2020

- Led design improvements in 5 key assembly stations that increased process capability by 4%.
- Executed 8D-analysis to solve 10+ recurring/critical problems, reducing customer-related failures by 22%.
- Maintained 50+ drawings and Bills of Materials in EPICOR, achieving 100% accuracy.

Manufacturing Engineer – Larsen & Toubro Ltd., India.

Feb 2015 – Nov 2017

- Spearheaded implementation of 5S methodology reducing part search time by 20% and achieving a level 3 audit score, showcasing organizational and process improvement skills.
- Utilized JIT and Kanban 2-bin systems to optimize assembly line workflows, resulting in a 30% reduction in restocking time and a 15% decrease in excess inventory.
- Presented KPIs and proposed solutions to senior management, liaising between production and executives, facilitating effective two-way communication and goal alignment.

Education

M.Eng. – Mechanical & Aerospace Engineering, Illinois Institute of Technology, USA.

Dec 2019

M.Sc. – Aerodynamics & Computation, University of Southampton, UK.

Sep 2014

B. Tech. – Aerospace Engineering, Indian Institute for Aeronautical Engineering. IN.

Dec 2012

Certifications

Lean Six Sigma White Belt – Department of Navy, USA | Lean Six Sigma Green Belt – University of Georgia, USA