Sreevardhan Gullipalli

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Summary

Versatile Mechanical Engineer with 4 years of experience in Mechanical Design, Lean Manufacturing, CAD modeling (SolidWorks, GD&T), FEA (ANSYS), and full-cycle project execution. Proven ability to develop innovative engineering solutions, manage project deliverables, and collaborate with cross-functional/offshore teams. Seeking to apply robust problem-solving skills to challenging engineering roles.

Experience

Jaydu LLC - Consulting Engagement at Utilimaster, Lancaster, PA
Mechanical Design Engineer June 2024 - Present

- Developed comprehensive 3D CAD models (SolidWorks) and detailed production drawings incorporating GD&T for complex mechanical systems and assemblies. Applied DFM/DFA principles extensively and validated physical prototypes to ensure successful full-scale production.
- Conducted comprehensive Structural Finite Element Analysis (FEA) using ANSYS to validate the integrity, performance, and safety of critical systems under diverse static and dynamic load conditions.
- Re-engineered multi-component mechanical assemblies to reduce part count by 20%, enhance manufacturability, and achieve documented project cost savings of $5000 /unit).
- Spearheaded design standardization initiatives, systematically organized and documented large CAD databases to improve design reuse and streamline future development cycles.

Jaydu LLC - Consulting Engagement at Masterack, Kansas City, MO
Manufacturing Engineer June 2021 - June 2024

- Led manufacturing engineering efforts for a van upfitting operation, driving process optimization, cost reduction, and quality improvement across multiple product lines (cargo storage, liftgates, ramps, electrical harnesses)
- Reduced scrap rates by 10% through error-proofing (Poka-Yoke) and improved material handling
- Championed Lean Manufacturing principles (5S, Kaizen, value stream mapping) to foster a culture of continuous improvement
- Led root cause analysis (RCA) investigations using 8D, 5 Whys, and Fishbone diagrams, implementing effective CAPA
- Implemented a preventative maintenance program, reducing equipment downtime by 15%
- Optimized prototype parts and assembly processes, improving ergonomics and reducing cycle times
- Managed ECN implementation, coordinating with departments for accurate updates to BOMs, drawings, and work instructions

Education

MS, Mechanical Engineering, University of Illinois Chicago, Chicago, IL May 2020
GPA: 3.75/4.0
Relevant Coursework: Advanced CAD, Multibody Dynamics, Applied Stress Analysis

B.Tech, Mechanical Engineering, CMR College of Engineering and Technology, Hyderabad, India Jun 2017
GPA: 3.6/4.0

Skills

- **Design & Analysis:** SolidWorks (Advanced), Autodesk Inventor, GD&T (ASME Y14.5), Large Assembly Management, Technical Drawings, ANSYS (Structural, Thermal), FEA (Static, Dynamic, Modal), DFM/DFA, Sheet Metal Design, Extrusions, Machining, Injection Molding (Knowledge), Tolerance Analysis
- **Manufacturing:** Lean Manufacturing, Process Optimization, Root Cause Analysis, CAPA, Work Instructions, SOPs, Process Mapping, Poka-Yoke, Statistical Process Control, Gauge R&R, Preventative Maintenance Planning, Production Support, Time Studies