Sreevardhan Gullipalli

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Summary

Versatile Mechanical Engineer with 4 years of experience in mechanical design, 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 design and 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
Mechanical Design Engineer   June 2021 - June 2024

- Led New Product Development (NPD) initiatives from concept to production for specialized vehicular accessories and modular systems, including ladder racks, configurable shelving, and access solutions.
- Executed detailed structural FEA (ANSYS) to assess and validate the load-bearing capacity and structural integrity of key components for cargo management systems, ensuring compliance with safety and durability standards.
- Oversaw the complete Engineer-to-Order (ETO) process for custom client solutions, effectively translating unique customer requirements into robust, production-ready designs.
- Engineered and finalized comprehensive manufacturing drawing packages; facilitated cross-functional design reviews with engineering, manufacturing, and stakeholders to secure approvals and optimize for assembly.

Education

MS, Mechanical Engineering, University of Illinois Chicago, Chicago, IL   May 2020

B.Tech, Mechanical Engineering, CMR College of Engineering and Technology, India   Jun 2017

Skills

- **Design & Analysis:** SolidWorks (Advanced), Autodesk Inventor, GD&T (ASME Y14.5), Large Assembly Management, Technical Drawings, ANSYS (Structural, Thermal), FEA (Static, Dynamic, Modal)
- **Engineering:** DFM/DFA, Sheet Metal Design, Extrusions, Machining, Injection Molding (Knowledge), Tolerance Analysis, Cost Optimization, Physical Prototype Development & Testing, Design Verification & Validation (DV&V), Root Cause Analysis, New Product Introduction (NPI)