

Sreevardhan Gullipalli

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Lancaster, PA

 /SreevardhanGullipalli

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.
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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)
- **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)