

# Sreevardhan Gullipalli

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Lancaster, PA

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Mechanical Design Engineer with 4 years of experience with CAD Design, FEA, and New Product Development. Proven ability to lead complex analyses, manage project deliverables on time, and collaborate effectively with cross-functional and offshore teams.

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## Experience

**Jaydu LLC - Consulting Engagement at Utilimaster**, Lancaster, PA

**Mechanical Design Engineer**

June 2024 - Present

- Designed 3D models and production drawings using GD&T for truckbody manufacturing (Solidworks). Applied DFM & DFA principles. Validated physical prototypes before full-scale production.
- Re-engineered service truckbody to reduce component count and improve manufacturability. Achieved production cost reduction of \$5000 in this project.
- Led a major design standardization project, encompassing the organization, design, and documentation of a large CAD database.
- Directed and collaborated with an offshore engineering team (India) ensuring adherence to standards and quality.
- Performed Structural Finite Element Analysis (FEA) using ANSYS, on truckbody systems to validate designs with static and dynamic loads.

**Jaydu LLC - Consulting Engagement at Masterack**, Kansas City, MO

**Mechanical Design Engineer**

June 2021 - June 2024

- Spearheaded New Product Development (NPD), successfully designing a van roof ladder rack system, foldable shelving units, and a bulkhead with sliding door.
- Executed structural Finite Element Analysis (FEA) using ANSYS to evaluate and validate the load-bearing capacity and structural integrity of key cargo van upfitting components, including wooden bulkheads, NLDV floor track systems, and polycarbonate shelving.
- Managed the end-to-end Engineer-to-Order (ETO) process for custom cargo van upfitting solutions, translating customer requirements into production-ready designs.
- Engineered and detailed final manufacturing drawing packages; led cross-functional design reviews to gain stakeholder approval.

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## Education

**MS**, Mechanical Engineering, University of Illinois at Chicago, Chicago, IL

May 2020

GPA: 3.75/4.0

**B.Tech**, Mechanical Engineering, CMR College of Engineering and Technology, Hyderabad, India

Jun 2017

GPA: 3.6/4.0

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## Skills

- **Design & Analysis** - Solidworks; Autodesk Inventor; GD&T; COMSOL; ANSYS (Thermal, Structural); FEA; Python (matplotlib, SciPy, numPy); MATLAB;
- **Engineering** - Sheet Metal Design; Manufacturing Processes (Sheet Metal, Extrusions, Machining, Welding); Data Analysis; Truckbody Systems, Van Upfitting

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## Projects

- **Multibody Simulation** - Executed dynamic analysis of a slider-crank mechanism in an MBS software, contrasting rigid body simulations with a flexible model incorporating a deformable connecting rod. Oct 2019
  - **SAE India Baja** - Participated in a nation-wide SAE Dune Buggy design competition. Manufactured a functional buggy and ranked 15th among 60 teams. Dec 2016
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