Sai Suhas Linga

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Mechanical Engineer/ Manufacturing Engineer/ Design Engineer

Summary

Experienced mechanical engineer with a background , in mechanical software tools such as AutoCAD, SolidWorks, and Creo. Exceptional skills in 3D printing, mechanical drawing, and bill of materials management, with a keen eye for component designs. Possesses hands-on experience in practical labs, adept at using measuring instruments and managing tolerances.

Technical Skills:

Computer-Aided Design (CAD): Creo PTC (Pro E), AutoCAD, SOLIDWORKS, CATIA, Autodesk, Matlab

Computer-Aided Engineering (CAE): ANSYS Workbench, SOLIDWORKS Simulation

Technical Skills: Engineering Design, Circuit Building, Power Tool handling, 3D Printing, Simulations, LABVIEW

Management Skills: Product Validation, Project Coordination, Team Management, Vendor Handling

Specialized Knowledge: Mechanical System Design, Finite Element Analysis, Computer-Aided Design, Production Process, Material Selection, GD&T ASME Y14.5, Sheet Metal and Plastics Design

Certifications:

- Certification in Canter CADD | Specializes in software development: Catia v5, ANSYS, SolidWorks (2021)
- Introduction to Self-driving Car's course on Coursera

Work Experience

Mechanical design engineer Intern I MED-SIX.inc **Feb 2024-Present**

- Led the design and manufacturing processes for bedside medical devices within the startup environment of MedSix, ensuring adherence to industry standards and regulatory requirements.
- Utilized mechanical engineering expertise to conceptualize, design, and develop innovative medical devices, focusing on functionality, usability, and manufacturability.
- Played a key role in the entire product lifecycle, from initial concept generation to prototyping, testing, and final manufacturing, ensuring seamless integration of design and manufacturing considerations.

Graduate Teaching Assistant | New Jersey Institute of Technology, Newark, NJ **Sept 2022 – Dec 2023**

- Spearheaded Mechanical Drawing & Defect Tracking initiatives, guiding students in creating 2D and 3D drawings of mechanical components using AutoCAD & SolidWorks.
- Utilized industry-standard software like AutoCAD and SolidWorks to streamline design and drafting processes.
- Leveraged 3D printing technology for rapid prototyping and product development, collaborating closely with the 3D Printer Operator.

Mechanical Engineer Intern | Scientific Engineering House Private Limited, India **June 2019 – July 2019**

- Proficiently identified and applied metallic and non-metallic alloys, ensuring adherence to IS requirements throughout manufacturing and design processes.
- Played a pivotal role in prototype development and testing, contributing valuable feedback for refinement in both manufacturing and design phases.
- Conducted diagnostic assessments on brass materials and actively contributed to 3D printing initiatives, enhancing manufacturing processes for streamlined production and improved product design.

Mechanical Engineer | Electronics Corporation of India Limited (ECIL), India **Aug 2019 – Sept 2019**

- Demonstrated proficiency in SolidWorks software, employing it to design and engineer a shock absorber and oversee its manufacturing process utilizing 3D printing technologies.
- Utilized SolidWorks expertise to oversee diverse organizational projects, aligning them with company objectives and executing both design and manufacturing aspects to meet organizational goals.
- Leveraged data analysis tools like Excel and SQL to scrutinize sales data, providing critical insights that informed inventory management decisions and optimized pricing and inventory strategies for both designed and manufactured products.

Project

SUPRA | SAE (Society of Automotive Engineers) **Aug 2017 – March 2019**

Directed the successful development of a formula racing car for the Formula Supra competition, utilizing advanced CAD tools like CATIA, Unigraphics, and ANSYS to ensure top-notch design and performance. Meticulously adhered to stringent guidelines throughout the process, resulting in a triumphantly executed project

Designing and assembling an Arbor Press **Jan2022-May2022**

Designed and modeled an arbor press using SolidWorks and Creo, adhering to engineering principles and industry standards for accuracy and functionality and Led the assembly process, ensuring precise alignment and fitting of press components to guarantee smooth operation and structural integrity also collaborated with team members to optimize design iterations and assembly procedures, resolving conflicts and enhancing efficiency.

Electromagnetic Energy Harvesting device **Jan 2023-May 2023**

Developed a theoretical model and simulation to analyze the response of an undamped system subjected to a harmonic force, utilizing generalized parameters. Designed an electromagnetic harvesting device aimed at charging a lithium-ion battery, intended for use in a nerve. stimulation device to alleviate symptoms of foot drop in individuals.

Education

- **New Jersey Institute of Technology,** Newark, NJ: Master of Science in Mechanical Engineering | GPA: 3.45 **Dec 2023**
  Relevant Courses: Computer-Aided Design, Heat Transfer, Continuum Mechanics and Project Management
- **Vasavi College of Engineering, India**: Bachelor of Engineering in Mechanical Engineering | GPA: 3.00 **Aug 2021**