

Katta Nagaraju

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9059351350

Hyderabad, Telangana

Summary

Detail-oriented Mechanical Design Engineer with 1.8+ years of experience in Product Design, CAD modeling, FEA simulation, and product development for nuclear and industrial applications. Proven ability to translate concepts into robust designs using SolidWorks, Fusion360, and ANSYS. Eager to contribute to engineering teams focused on innovation, reliability, and performance.

Education

Mechanical Engineering

Sreenidhi institute of science and technology • Hyderabad, Telangana

07/2023

- Graduated With a CGPA - 8.24
- Relevant coursework: Design of Machine Members, Computer aided Drawing and Manufacturing, Manufacturing Processes

Intermediate

Narayana Junior College • Hyderabad, TELANGANA

07/2019

- Graduated With a Percentage - 90.6
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Experience

Mechanical Design Engineer

Noki technologies Pvt Ltd • Hyderabad, Telangana

Sept 2024 - Present

- Design and develop mechanical components related to nuclear fields, ensuring compliance with industry standards (e.g., ISO, CE).
- Perform simulations (ANSYS, Fusion360) for stress, thermal analysis to validate designs.
- Provide technical support during installation and maintenance, ensuring safe and efficient system operation.
- Produced technical documentation for design validation and regulatory approval.

AutoCAD Designer/Drafter

Nikhita Industries • Hyderabad, TELANGANA

Jan 2024 – Aug 2024

- Assisted in creating detailed 2D and 3D drawings for various projects, including mechanical components, and electrical layouts, using AutoCAD software.
 - Collaborated with senior designers and engineers to understand project requirements and contribute to the development of design solutions.
 - Utilized AutoCAD's sheet metal features to create and edit sheet metal parts, including wall thickness, bend radius, and relief cuts.
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Projects

Design and Analysis of Propeller Shaft using ANSYS Software

- Designed a high-performance propeller shaft and validated it using ANSYS simulations.
- Performed FEA to identify failure points and optimized material usage, improving durability.

Fabrication Of Generative Design of Hexacopter Drone Chassis Using 3D Printer

- Designed lightweight, generative-structured drone chassis in Fusion360.
 - Conducted stress analysis and printed functional prototypes for field testing.
 - Reduced weight by 15% through structural optimization.
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Skills

- **CAD & Design Tools:** SolidWorks (CSWA), AutoCAD, Fusion360, CATIA V5, Creo
 - **Simulation:** ANSYS (FEA, thermal, structural), Autodesk Simulation
 - **Manufacturing:** Sheet Metal Design, 3D Printing, Tooling, Mechanical Assembly
 - **Standards:** GD&T, ISO, CE Compliance
 - **Soft Skills:** Communication, Team Collaboration, Leadership
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Languages

Hindi, English, Telugu

Certificates

SolidWorks Certified Associate (CSWA) by Udemy

Internship Certificate on Industrial training on ANSYS by National small industries Corporation

Internship Certificate on Make your Own 3D Printer by Quanint Techsoft

Online Profile

Linkedin- [linkedin.com/in/nagaraju-katta](https://www.linkedin.com/in/nagaraju-katta)

Certificate URL: [udemy.com/certificate/UC-aeb70266-a7d4-4968-a569-3491af379b2c/](https://www.udemy.com/certificate/UC-aeb70266-a7d4-4968-a569-3491af379b2c/)

Declaration

I hereby declare that the above information is true and correct to the best of my knowledge and belief.