CHEPURI SAI TEJA

MECHANICAL ENGINEER AT VJIT COLLEGE

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Career Objective:

Aspiring to secure a challenging role as a Mechanical Engineer where I can apply my strong foundation in 3D modelling, product design, and analysis. Passionate about leveraging advanced engineering tools and techniques to contribute to innovative and efficient design solutions.

Education:

- **Vidya Jyothi Institute of Technology**
  B. Tech in Mechanical engineering (2025)
  GPA:8.13
- **GOVT. Polytechnic Nizamabad**
  Diploma in Mechanical engineering (2022)
  GPA:9.13
- **Vagdevi Vidyalayam High School**
  SSC (2019)
  GPA:8.8

Skills:

- 3d design software's: 1. Catia V5, 2. SolidWorks
- Analysis Tools: 1. Mechanical APDL 2. Ansys workbench
- Programming: 1. Python 2.HTML
- Productivity Tools: MS Office Suite.

Internships:

Project Trainee in Bharat heavy electrical limited:

- Collaborated with engineering teams to analyse the design and functionality of critical components such as rotors and casings.
- Gained practical experience in machining, assembly, and quality assurance, processes.

Projects:

1. **Manufacturing of Mini CNC milling machine:**

- Developed a budget-friendly CNC machine using Fusion 360 and GRBL software for offline programming.
- **Components Used**: Stepper motors, linear guides and so on.

2. **Optimizing Syringe based Extruder Designs for Affordable and Efficient Bioprinting:**

- Developed a cost-effective syringe-based extruder for open-source FDM printers, optimizing printing parameters for sensitive materials and enabling applications in tissue engineering and regenerative medicine.
- **Tools used:** Timing belt and pulley mechanism, stepper motors, lead screws and so on.

3. **Modelling of a Hybrid Vertical Axis Helical Wind Turbine**

- Developed a 3D model of a hybrid helical vertical-axis wind turbine, integrating Savonius and Darrius designs to optimize efficiency and energy generation across varying wind conditions.
- **Tools Used:** Catia v5 software.

Courses and Certifications:

- Reverse Engineering by LinkedIn.
- Introduction of Machine Learning by great learning.
- Foundation of CADD by Educadd.
- Basics of Catia v5 by Skill lync.

Awards and Recognitions:

- Academic Excellence Certificate (2nd Year-2022)
- Project Expo Participant | Udbhav 2023
- Symposium Participant | IMP 2024, Nat-Foe Symposium

Hobbies and Interests:

1. Graphic design (Adobe Photoshop).
2. Reading books.
3. Researching in new trends and technologies.

Core Competencies:

- Analytical and problem-solving abilities
- Adaptability and enthusiasm for learning
- Creativity and Innovation

Languages:

- Telugu
- English
- Hindi

Personal Details:

Date of Birth: Apr-23-2003

Address: H.No.1-7-15/B, Kamareddy, Telangana**.**

Father Name: Ch. Narsimha Chary.

Occupation: Goldsmith

Declaration:

“I Chepuri Saiteja confirm that the above information is accurate and complete to the best of my knowledge.”

Date: Signature:

Place: HYDERABAD CH.SAITEJA