Rohit Reddy

(973) 262-2001 | rohitreddy2798@gmail.com | www.linkedin.com/in/reddy-rohit

Summary

Innovative Mechanical Engineering Master's student at the University of Dayton, thriving in challenging environments that require creative design and development solutions. Extensive engagement in projects beyond classroom theory, leading the way in automotive design and Internet of Things (IoT) applications. Brings a rich skill set in CAD/CAM, bolstered by a profound passion for mechatronics and robotics. Distinguished as a proactive problem-solver, adept at deconstructing complex concepts into actionable, efficiency-enhancing solutions. Committed to pushing the boundaries of engineering with a blend of academic rigor and practical ingenuity.

Education

University of Dayton, School of Engineering — December ,2024
Master of Science, Major: Mechanical — GPA: 3.07

- Specialized coursework: Finite Element Analysis, Theory of Elasticity, Theory of Plasticity, Autonomous Systems,Advanced Composites, Applied Heat Transfer, Applied Robotics,Introduction to Programming, Advanced Engineering Analysis. .

Ajeenkya D Y Patil , School of Engineering — August ,2020
Bachelors of Technology , Major: Mechatronics

- Gained hands-on experience in Automation, CNC Milling, CNC, EDM, and 3D Printing
- Completed a Certificate Course in C Programming
- Attended the ADYPU Innovation Summer School at Vesalius,College, Brussels,
- 2017 Participated in the ADYPU Leadership Program at the University of South Carolina, Aiken, USA, 2019

Experience

Reddy Customs — Pune, Maharashtra, India
Engineer - Research and Development — August 2020 - May 2022

- Led design and development of 5 new mechanical products, enhancing functionality by 30%, and revamped 3 product lines, increasing customer satisfaction by 25%.
- Applied analytical skills to resolve over 10 significant project risks, enhancing efficiency by 20% and cutting overruns by 15%.
- Managed 7 major projects, including Mercedes V-Class paneling (improved interior quality by 40%) and pivotal involvement in Everve's EF1 scooter chassis development (increased production efficiency by 50%)..
- Utilized communication skills to lead a 12-member team, ensuring on-time completion of milestones over 12 months and achieving 100% success rate.
- Transitioned from intern to full-time engineer within 3 months, ranking in the top 5% of interns based on performance and contributions.
- Earned a full-time engineering role post-internship, selected from 20 interns for exceptional design efficiency and project leadership.

Projects

University Of Dayton — Dayton, Ohio
Webcam Controlled Rover — Oct 2023–Nov2023

- This project may have been part of a class or a special group activity, demonstrating the application of academic learning in a practical scenario.
- Highlights include the development of autonomous capabilities, integration of Arduino and MATLAB, custom path-following algorithms, and image processing for location and orientation detection.
- Skills are demonstrated through the improvement of response times, efficiency, and minimizing collisions, suggesting effective project management and teamwork.

University Of Dayton — Dayton, Ohio
2D Transient Heat Transfer Analysis in an aluminum Wall — Sept 2023–Oct 2023

- This project likely involved extensive research and analytical work, possibly as part of an academic or research group.
- Showcased through the use of Python for data processing, finite difference methods for solving node equations, and achieving high accuracy in alignment with theoretical predictions.
- Evident in the authoring of a detailed report and the management of a large dataset, indicating strong organizational and communication skills.

University Of Dayton — Dayton, Ohio
Drawing Robot — Aug 2021–March2022

- Could be a part of a technical or engineering course, demonstrating creativity and technical acumen.
- Illustrated by programming in MATLAB, image processing algorithms, and robotic movement accuracy.
- Indicated by the testing and refinement process, ensuring consistent performance across various images.

Reddy Customs — Pune, Maharashtra
Mercedes V-Class Personalisation Project — Aug 2021–March2022

- This project might not directly relate to an academic setting but shows real-world application in a professional environment.
- Demonstrated in the design and assembly aspects, particularly in paneling , electronics and lighting design.
- Strongly highlighted by leading a team, managing the assembly process, and achieving high client satisfaction and quality control standards.

Everve Motors — Pune, Maharashtra
Electric Scooter Chassis Design and Development Project (EF1) — Jan 2021–July 2021

- This project likely involved applied engineering principles, possibly as part of a collaborative industry-academic initiative.
- Evident in chassis design and development, coordination for safety and regulatory compliance, and conducting road trials.
- Illustrated by directing a team, coordinating with suppliers, and implementing design modifications post-testing.

Other Work Experience

Catering Services, University Of Dayton — Dayton, Ohio
Student Manager — Nov 2022– Currently

- As Student Manager for the University of Dayton's Catering Services, I led and mentored a 15+ member student team, driving a 20% increase in operational efficiency and a 40% improvement in service delivery through innovative training programs and strategic cross-departmental collaborations, highlighting robust leadership, technical acumen, and teamwork skills.

Skills

- **Programming Languages:** Matlab , Python , Fusion 360 , AutoCad , Alias , Arduino , Raspberry Pi .
- **Leadership:** Innovated , Accelerated , Dedicated.
- **Communication:** Deliberated , Integrated ,Projected.

Certificates

- XEE100 - 030 Introduction to Internet of Things - Stanford University • 2023
- Additive Manufacturing - The Open University • 2023
- Fusion 360 - Mind Luster • 2023
- Introduction Vectors for engineering Applications - The Open University • 2023