AKASH GAWADE

Pune, Maharashtra
+91-9011468653
akashgawade3914@gmail.com

Summary

I am Mechanical Engineering Student having key expertise in CAD/CAM software, machine learning (ML), and automation. With a CGPA of 9.37 throughout the six semesters, I have consistently excelled academically while gaining extensive experience in project management, manufacturing processes, and implementing ML algorithms for automation. Eager to leverage my mechanical engineering proficiency, ML knowledge, and technical expertise to contribute effectively to challenging projects.

Skills

- Mechanical Design and Simulation (ANSYS, Fusion 360, AutoCAD)
- Fluid Mechanics and Hydraulics
- Structural Analysis
- 3D printing
- Programming Languages (Python, JAVA)
- Machine Learning
- Communication and Collaboration
- Resilience

Education

- **B.Tech. - Mechanical Engineering**
  MIT Academy of Engineering
  CGPA: 9.37 / 10
  2021-2025 (In Progress)
- **12th — HSC**
  Modern College Of Arts, Commerce And Science, Pune
  Completed with First Class, 2020
- **10th — SSC**
  Shri Bhairavnath Vidya Mandir,Pabal
  Completed with Distinction, 2018

Projects

- **Autonomous Guided Vehicle (AGV)**
  - Industries face challenges with manual material handling, which is costly, inefficient, and error-prone. This project aims to develop a smart Autonomous Guided Vehicle (AGV) system to handle tasks independently. The goal is to enhance efficiency, reduce costs, and eliminate errors, increasing adaptability across various environments
  - Implemented obstacle detection and avoidance using LiDAR and computer vision.
  - Programmed navigation system with ROS and Python for precise path planning.
  - Worked with a team to integrate hardware components, improving the system's performance.
- **Design of Laryngoscope**
  - A laryngoscope is a medical instrument used by healthcare professionals to examine the larynx (voice box), throat, and the vocalcords. It typically consists of a handle with a curved or straight blade. The primary goal of this projectis to design an innovative, efficient, and user-friendly laryngoscope that improves the process of tracheal intubation.
  - Utilized CAD for precise 3D modeling and integrated LED lighting and Camera into the prototype.
  - Conducted usability testing and collaborated with engineers.
  - Managed project timeline using Gantt chart, delivering a fully functional prototype meeting regulatory standards and client needs.

Certifications

- Introduction to Machine Learning (AWS)
- The Complete Hydraulic Course (Udemy)
- Pneumatic Fundamentals (Udemy)
- PCAP: Programming Essentials in Python

Achievements and Extra Curricular Activities

- Academic Excellence Award, Mechanical Engineering, 2023
- TATA Building India Essay Competition National Level Winner
- State level Elementary and Intermediate Drawing Grade Examination Certificate ,Grade A
- Contributed ideas to improve and maintain poultry shed efficiency, such as enhancements to the watering system and temperature regulation
- Volunteered in Community Clean-Up Drive At Dighi Hills

Personal Interest

- Do It Yourself activities
- Sketching and Drawing
- Assisting Father in farming

Personal Details

Full Name: Akash Kailas Gawade
Date of Birth: 06 Sep, 2002
Marital Status: Single
Current Address: B/1010 Kesar Kingdom, Alandi road, Dattanagr, Dighi, Pune, Maharashtra, India - 411015
Permanent Address:A/P Pur, Kanhersar, Tal-Khed, Pune, Maharashtra, 410505
Known Languages: Marathi, Hindi, English
Phone Numbers: +91-9011468653
Emails: akashgawade3914@gmail.com