SAISH RAJENDRA AVHALE
B.Tech. - Mechanical Engineering

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KEY EXPERTISE

Team Collaboration | Communication Skills | Presentation Skills | Documentation and Reporting | MS Office | Front-End Development

EDUCATION

MIT Academy of Engineering, Pune — 2020 - 2024
B.Tech. - Mechanical Engineering | CGPA: **9.02 / 10.00**

Government Polytechnic, Aurangabad — 2021
Diploma | Diploma - Mechanical Engineering | Percentage: **92.76 / 100.00**

Saint Monica School, Vaijapur — 2018
10th | MSBSHSE | Percentage: **91.60 / 100.00**

AWARDS AND SCHOLARSHIPS

- AIR 9 - mBAJA • BAJA SAE INDIA 2023, organized by SAEINDIA
- AIR 1 - Go Green Event • BAJA SAE INDIA 2023
- AIR 3 - Validation Event • BAJA SAE INDIA 2023

PROFESSIONAL EXPERIENCE

BAJA SAEINDIA 2023 — 01 Jun, 2022 - Present

Roll Cage Member
Key Skills:

Team collaboration | Communication and Resource management skills | Develop and prepare technical documentation

Design, build, and test the performance of a real vehicle | Presentation Skills

- Utilized CAD software to create detailed 3D models of the ATV, ensuring optimal performance and functionality.
- Collaborated with team members to identify design improvements and enhance vehicle performance.
- Conducted rigorous testing and analysis to validate design modifications.
- Assisted in the maintenance and repair of the vehicle during the competition.

INTERNSHIPS

LVL ALPHA — 01 Jul, 2023 - Present
Research & Development Associate

Key Skills: Mechanical Engineering | 3D Modeling | Ansys | Technical Documentation | Communication

PROJECTS

Design and Fabrication of 4WD All Terrain Vehicle — 01 Jun, 2022 - 01 May, 2023
Team Size: 26
Key Skills:

Mechanical Design | Prototyping and Fabrication | Testing and Validation | Teamwork and Collaboration | Problem Solving

Documentation and Reporting | Material Selection

- Designed and fabricated vehicle components according to SAE rulebook guidelines.
- Utilized CAD software to create detailed 3D models of the ATV, ensuring optimal performance and functionality.
- Carried out selection of appropriate materials and components, considering factors such as durability, weight, and cost.
- Looked after creating drafts for manufacturing our components on machines like CNC bending, M1TR, lathe and laser cutting.

Design and Manufacturing of Lathe Milling Attachment
Team Size: 4

Key Skills: Mechanical Design | Analysis | Manufacturing

Design and Development of a special attachment, that can be assembled on Lathe Machine's cross slide resulting in Milling Operations on Lathe

Real-Time Face Mask Detection using Python
Team Size: 4

Key Skills: Python   OpenCV   TensorFlow

Built a hybrid model using Python and classical machine learning for face mask detection

Shopping Cart with JavaScript

Key Skills: HTML   CSS   JavaScript

• Using JavaScript to add, remove, and manage items in a Cart.
• Enabling a dynamic and interactive shopping experience, where users can update quantities, and calculate the total cost of their selections.

ACHIEVEMENTS

- Only student out of a class of 90 to secure a grade A in Applied Mathematics
- Meta Front-End Developer Certified
- Overall Dynamics AIR 5 • CAE Presentation AIR 6 • Suspension & Traction AIR 7

ASSESSMENTS / CERTIFICATIONS

Meta Front-End Developer Specialization

Key Skills: GitHub   Figma   UI/UX design   JavaScript ES6   CSS   HTML

• Learnt to create responsive website using HTML to structure content, CSS to handle visual style, and JavaScript to develop interactive experiences.
• Learnt Bootstrap CSS Framework to create webpages and work with GitHub repositories and version control.
• Learnt to use React in relation to Javascript libraries and frameworks.

Elements of AI

Key Skills:

Artificial Intelligence   Machine Learning   Reinforcement Learning   Unsupervised Learning   Natural Language Processing

Neural Networks

CO-CURRICULAR ACTIVITIES

- Roll Cage Member • Team Niyudrath Racing - (Official BAJA club of MITAOE)

PERSONAL INTERESTS / HOBBIES

- Singing
- Running