



SUJEETH JUJE FERNANDES

B.Tech. - Mechatronics Engineering

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BRIEF SUMMARY

I hold a specialization in the fields of Robotics and Mechatronics, and I have honed my skills in CAD modeling using SolidWorks. I possess a foundational understanding of AI and Machine Learning. I am committed to lifelong learning and derive immense satisfaction from converting raw data into valuable insights.

KEY EXPERTISE

Public Speaking Teamwork Robotics Mechatronics Communication CAD ANSYS Equipment Design
Presentation Skills FEM Ros2 python automation

EDUCATION

Ajeenkya D Y Patil University - School of Engineering -ADYPUSOE

2021 - 2025

B.Tech. - Mechatronics Engineering | CGPA: **6.46 / 10**

ST ALOYSIUS PU COLLAGE, Mangalore

2020

12th | PUE Karnataka | Percentage: **80.02 / 100**

HOLY ROSARY CONVENT HIGH SCHOOL, Honavar

2018

10th | karnataka secondary education examination board | Percentage: **87.20 / 100**

INTERNSHIPS

BISTA INCORPORATION PVT. LTD | Construction & Engineering

01 Jul, 2024 - 01 Aug, 2024

CAD Design Engineer

Key Skills: CAD Hydropower

CAD Designer Intern

BISTA INCORPORATION PVT. LTD. (June 2024)

Contributed to a hydro energy generation project, gaining hands-on experience in CAD design.

Acquired a strong understanding of the hydro energy industry and relevant technologies.

One-month internship provided valuable insights and practical skills in energy generation systems.

PROJECTS

WOLFZ HYPERLOOP (GLOBAL HYPERLOOP COMPETITION)

04 Sep, 2024 - 22 Feb, 2025

Mentor: PROF. YASHODHAN SONAWANE and PROF.SATEESHA PATIL | **Team Size:** 12

Key Skills: Embedded Systems Mechanics Electronics

Team Leader

Spearheading the design and integration of advanced propulsion, levitation, and mechanical systems for a high-speed Hyperloop prototype.

Driving innovation in sustainable transit by optimizing energy efficiency, performance, and safety.

Collaborating across multidisciplinary teams to achieve cutting-edge solutions that challenge conventional transportation limits.

SEWBOT

01 Jul, 2024 - 12 Dec, 2024

Mentor: DR. RAVI GANDHI | **Team Size:** 3

Key Skills: CAD ROS Electronics Mechanics Coding

Designed and developed a sewage maintenance robot aimed at improving safety and efficiency in sewage cleaning. Integrated mechanical systems with IoT-based embedded systems for remote operation, featuring high-torque motors, pressure pumps, and waterproof electronics to ensure reliable performance in hazardous environments.

E- BAJA (TEAM AVINYA)

01 Jul, 2023 - 31 Mar, 2024

Mentor: DR. IPSITA SWAIN | **Team Size:** 25

Key Skills:

CAD ANSYS Electricals Vehicle Dynamics Manual Testing Manufacturing Techniques Manufacturing
Design for Manufacturing Presentation Skills FEM

E-Baja Core Designer & Driver

Spearheading the design and optimization of high-performance components, ensuring structural integrity and system efficiency. Driving system integration by aligning mechanical and electrical subsystems for peak performance. Collaborating with cross-functional teams to enhance vehicle dynamics and deliver competitive results on challenging terrains. Piloting the vehicle during competitions, leveraging precise control and strategic decision-making.

ASSESSMENTS / CERTIFICATIONS

E BAJA

Key Skills:

CAD Design for Manufacturing ANSYS Presentation Leadership Mechatronics Electricals FEM SolidWorks
Fusion 360

E BAJA is an annual competition organized by SAE India where engineering students design, build, and race electric all-terrain vehicles (ATVs). The event challenges teams to innovate and apply their technical skills in real-world scenarios, focusing on sustainability and electric mobility. The competition includes various phases such as design evaluation, cost analysis, and dynamic events like acceleration, maneuverability, and endurance tests

I participated in the E BAJA 2024 event, contributing to both the design and manufacturing departments to create an ATV from scratch

DIPLOMA IN ROBOTICS

Key Skills: Robotics Simulation ROS

This is a course in robotics unravels the fundamentals of this field, starting with its history before moving onto the various applications and laws of robotics. Where we will enhance our understanding of both forward kinematics and inverse kinematics in animation and gain knowledge of 'manipulators', a key part of industrial robots. we will also learn about DH algorithms, along with differential relations.

POSITIONS OF RESPONSIBILITY

Head of Open Throttle Racing Club

Open Throttle Racing club is a club where all the major projects of the university take place, like go kart , AEROTHON and E BAJA

Head of Design Department of Team (AVINYA.)

Team AVINYA is our E Baja team . Where our team participate in the offroad ATV event organised by SEA INDIA.

HEAD OF HYPERLOOP (TEAM WOLFZ)

GHC (Global Hyperloop Competition) organised by IIT Madras.
Where the pod is tested and inspected.

CO-CURRICULAR ACTIVITIES

- o CREATING ROBOTICS PROJECTS
- o CREATING CAD 3D MODELS

PERSONAL INTERESTS / HOBBIES

- o READING BOOKS, FISHING , TRAVELING.

WEB LINKS

- o Other - <https://drive.google.com/drive/folders/1DLk310MJUy6ijwX8VOBpr4TE051GXGU9?usp=sharing>
- o Facebook - https://www.instagram.com/king_boss_8055/
- o Other - <https://grabcad.com/sujeeth.fernandes-3>

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: Nimbalkar Nagar, Lane no 9, Pune,
Maharashtra, India

Date of Birth: 04 Sep, 2002

Known Languages: English, Hindi, Kannada, Konkani , Marathi.

Permanent Address: Halematta, Manki, Honavar, Karnataka,
India - 581348

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REFERENCES

- **Dr. Ravi Gandhi**
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- **Prof .Yashodhan Sonawane**
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