Saurabh Desai

DOB.: 19/02/2003
Pre Final Year Btech
Mechanical Engineering
Veermata Jijabai Technological Institute, Mumbai

+91- 7768986402
saurabhdesai2003@email.com
ssdesai$_b$21@*me.vjti.ac.in*
GitHub
LinkedIn

Education

•Veermata Jijabai Technological Institute (VJTI) *2021-25*
Btech Mechanical CGPA:- 7.43 : 2023

•Balasaheb Desai College Patan *2019-21*
HSC, Maharashtra Percentage:- 96 : 2021

Relevant Courses

•Robotics Machine Design Automotive Fluid Mechanics Thermodynamics

•Industry 4.0 and IIOT Industrial Engineering And Management Innovation and Entrepreneurship

Projects

–**Smart Irrigation System** *Ongoing*

Contributed to sustainable agriculture practices by improving water efficiency and crop yields.

* Implemented AI-driven smart irrigation system, analyzing sensor data to optimize water distribution and enhance crop growth.
* Leveraged ML algorithms to predict soil moisture levels and automate irrigation scheduling, reducing water wastage.

–**Mars Rover Prototype** *Aug-2023*

Participated in IRC Mars Rover Prototype Competition as a key member of the Mechanical Subsystem team.

* Utilized 3D printing, robotics, PCB design, smart manufacturing, sensors, cameras, and communication models in the development of a multifunctional rover.
* Crafted a Mars rover prototype for analog environment trials, showcasing proficiency in robotics, 3D printing, PCB design, and sensor integration.

–**3-Degree of Freedom Robotic Arm** *June-2022*

Designed a 3-DOF robotic arm with expertise in kinematics and C programming for precise rotational control.

* Utilized tools like Gazebo and RVIZ, applying modeling and simulation for kinematic analysis.
* Attained precise control of the robotic arm's motion, ensuring enhanced capabilities in applications like automation and manipulation tasks.

–**Remote Control Aircraft** *Jan.-2022*

Contributed to lightweight, balsa wood RC aircraft development with a focus on design and aerodynamics.

* Employed tools and technologies relevant to aircraft design, including modeling software and remote control systems.
* Achieved a successful outcome with a functional remote control aircraft, emphasizing durability and performance for recreational and educational purposes.

Technical Skills

–**Software's:** SolidWorks, Ansys, AutoCad, Fusion 360, Ultimaker Cura
–**Programming Languages:** C++, ROS, G and M code,
–**Platforms:** VS Code, Git, GitHub

Achievements

–**Joint Entrance Examination (JEE Advanced)** AIR 22089 *2021*
–**Joint Entrance Examination (JEE Mains)** AIR 48640 *2021*
–**Maharashtra Common Entrance Test (MHT-CET)** Percentile:- 97.78 *2021*

Positions of Responsibility

–**Member of Mechanical Subsystem** Vishwa, VJTI (Astronomy club of the institute.) *Nov. 2022 - Present*
–**Member of Power Transmission sector** VJTI Racing *March 2022 to June 2023*
–**Operations Executive** Technovanza,VJTI *Aug. 2022 to June 2023*
–**Chief Content Manager** Enterpreunership Cell,VJTI *Aug. 2022 to June 2023*