

in LinkedIn

#### **EDUCATION**

Veermata Jijabai Technological Institute (VJTI)

CGPA:- 7.36 : 2023

•Balasaheb Desai College Patan

2019-21

2021-25

HSC, Maharashtra

Btech Mechanical

Percentage: 96: 2021

#### Relevant Courses

• Robotics Machine Design Automotive Fluid Mechanics Thermodynamics

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

# EXPERIENCE

# - Vishwa, VJTI (Astronomy club of the institute.)

Rover Suspension subsystem Lead

Mumbai

- \* Led the Rover Suspension Subsystem, gaining expertise in 3D modeling with SolidWorks and component analysis using Fusion 360 and Ansys
- \* Gained hands-on experience in various manufacturing processes (CNC machining, 3D printing, laser cutting) and equipment operation during rover model construction.

#### **PROJECTS**

Weed Control Robot Feb. 2024

Designed a 3D model of a weed control robot using SolidWorks.

- Engineered a robust four-wheel-drive system integrated with a chain drive mechanism for optimal mobility.
- Designed a weed control mechanism featuring cutting blades and motors with linear actuators for precise height control

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

•Platforms: VS Code, Git, GitHub

# ACHIEVEMENTS

 $\textbf{-Chief Content Manager} \\ \textbf{Enterpreunership Cell,} \\ \textbf{VJTI} \\$ 

•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

Aug. 2022 to June 2023