

SIDDHESH KIRVE

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PERSONAL DETAILS

Date of Birth- 7 March 2003
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ABOUT ME

Final-year Mechatronics Engineering student passionate about automation, design, and innovation. As the President of the Mechatronics Engineering Student Association, I have led multiple technical and leadership activities. I hold a patent for an Automated Conveyor Belt Sorting System, showing my problem-solving and creative skills. My experience includes working with Festo India on industrial automation and leading academic projects in robotics, drones, and automation systems. I am skilled in design tools like AutoCAD and CATIA, along with programming and PLC knowledge. Achieved All India Rank 1 in a national Go-Karting Championship, reflecting determination and competitive spirit. With strong leadership, teamwork, and project management abilities, I aim to apply my skills to real-world engineering challenges.

EDUCATION

RAJARAMBAPU INSTITUTE OF TECHNOLOGY
B.Tech Mechatronics Engineering

DEC 2021- Present
Uran- Islampur, Sangli

SWARAJYA PUBLIC TRAINING SCHOOL & JR.COLLEGE
HSC - 84.5 %

2021
Bhuij, Satara

KARMAVEER BHAURAO PATIL VIDYALAYA
SSC - 88.60 %

2019
Bhuij, Satara

INTERNSHIP

Festo India

AUG 2023 - SEP 2023

Internship Trainee

Pimpri-Chinchwad, Maharashtra

•Gained hands-on experience in hydraulics, pneumatics, and electro-pneumatics used in industrial automation for manufacturing and assembly. Worked on the design, assembly, and troubleshooting of pneumatic and hydraulic circuits, integrating components such as valves, actuators, and sensors. Acquired practical knowledge of PLC-based control, system calibration, and maintenance for real-world automation applications.

PATENT

Automated conveyor belt sorting system for magnetic and non - magnetic waste separator

Patent Reg. No - 202421069751

The system efficiently separates waste using a conveyor belt, electromagnet, and collector mechanisms, ensuring that magnetic materials are removed early in the process. This easy process reduces the need for manual sorting, increases recycling rates, and enhances overall waste management efficiency.

EXPERIENCE

Mechatronics Engineering Student Association | MECHSA

SEP 2024– PRESENT

President

Uran- Islampur, Sangli

Worked as President for Mechatronics Engineering Student Association. Led a State Level Technical Event with participation of 750+ students

Mechatronics Engineering Student Association | MECHSA

SEP 2022 – AUG 2024

Design Head | EKYAM 1.0, EKYAM 2.0

Uran- Islampur, Sangli

Luftwaffe Racing

DEC 2022 – JULY 2023

Technical Team Member

Uran- Islampur, Sangli

Brake Assembly | Design Department | Management

- All India Rank #1 GKDC- 2023 | EGKDC- 2023

RISE AND RECRUIT

AUG 2025 – PRESENT

Training and Placement Cell

Uran- Islampur, Sangli

RESEARCH PROJECTS

Automation Based Surveillance Drone

Capstone Project

Designing and developing an autonomous drone for real-time monitoring and security applications. The system integrates a flight controller (FC) with telemetry modules for autonomous navigation, along with onboard sensors and cameras to enable efficient large-area surveillance. The project aims to minimize human intervention while enhancing safety and reliability in sensitive zones.

Water Pollution Monitoring RC Boat

Engineering Exploration and Design Project

The Water Pollution Monitoring RC Boat is a remotely controlled boat designed to monitor water quality in real-time. Equipped with sensors to detect pollutants such as chemicals, pH levels, and temperature, it provides valuable data for environmental monitoring and pollution control.

Medicine Delivery Bot

Mobile Robotics Project

Developed an autonomous line-following robot for hospital medicine delivery applications. Implemented IR sensor-based path detection, PID control algorithm for precise line tracking, and motor driver-based actuation for smooth navigation. Integrated obstacle avoidance to ensure safe and efficient delivery in dynamic environments, enhancing reliability of autonomous operation.

Line Follower Robot

Designed and developed a custom autonomous line follower robot by integrating an IR sensor array for line detection, an Arduino-based control system for processing and decision-making, and an MX1508 motor driver to actuate N20 geared DC motors. Assembled, calibrated, and programmed the system to optimize sensor accuracy and motor response, enabling smooth navigation and reliable path following.

SKILLS

- Leadership
- Team Management
- Project Management
- Microcontroller | Arduino | Microprocessor
- PLC
- Robotics
- Design- Catia | AutoCAD
- Languages Basic- C | Python
- Microsoft Office - Excel | Word |Power Point Presentation
- Simulation- ROBOGUIDE(Fanuc) | MATLAB
- Hydraulics
- Pneumatics | Electropneumatics

CERTIFICATIONS

Industry 4.0 – Robotics Systems – Reliance Foundation Skilling Academy, 2025
Power Electronics – CURSA,2025