




SHANKAR HONRAO

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About Me

Motivated Robotics & Automation Engineering student with hands-on experience in ROS2, SLAM, autonomous navigation, and robotic simulation. Skilled in integrating perception, control, and automation to develop intelligent robotic solutions. Eager to apply technical knowledge and problem-solving skills to real-world projects and contribute to innovative robotics and automation initiatives.

Technical Skills

Robotics & Simulation

ROS2, SLAM & Navigation, Gazebo, RViz

Programming & AI

Python, C++, OpenCV, MATLAB, Arduino

Design & CAD

Fusion 360, AutoCAD

Hardware & Integration

Sensors, Motors & Motor Drivers

Education

B.Tech in Robotics & Automation Engineering (Pursuing)

(CGPA): 7.80 (2025)

XII (HSC) – Janata Jr. College, Naigaon

69.83% (2024)

X (SSC) – BBEMS Naigaon

86% (2022)

Project's

1) Line Following Robot (Mini Project)

Built a robot using IR sensors and STM32 microcontroller to follow a predefined path.

2) Autonomous Mobile Robot

Developed ROS2 nodes for differential drive navigation and validated in Gazebo and RViz.

3) Smart Parking System (Arduino Based)

Arduino-based system to manage smart parking slot detection.

EXPERIENCE

Intern – Saiprasad Enterprises (House of Automation)

1 Month | Pune

Assisted in the mechanical assembly of X-Y linear slide systems used in industrial pick-and-place automation.

Worked on mounting linear rails, supports, and actuators, ensuring proper axis alignment and smooth motion.

Supported basic wiring and preparation of components for system testing.

Accompanied senior technicians on site visits, observing installation, inspection, and operation of automation machinery.