

B.PAVAN

+91 9108830102 | pavanjb16@gmail.com

Education

JSS Academy of technical education, Bengaluru Bachelor of Robotics and Automation, 7.89% CGPA	2026
Shaheen independent PU college, Bidar PUC 87%	2021
Guru Nanak Public School, Bidar SSLC, CBSE, 77%	2019

Technical skills

Languages: Python, C, C++, Matlab

Design: Autodesk, CAED

Simulation: RoboDK

Operating System: Robot Operating System (ROS 1)

Additive manufacturing: *in progress

Projects and workshops

Autonomous cleaning robot

Designed and developed an autonomous robot capable of dry vacuum cleaning and wet mopping operations. ROS, Raspberry Pi, SLAM(simultaneous localization and mapping), sensors, Autodesk, additive manufacturing, Microsoft Kinect 360 camera (RGB - D).

Light seeking or following robot

The Light Following Robot is designed to detect and follow a light source automatically. A Light Seeking Robot can be practically implemented in real-world applications where movement toward a light source is required (Solar Tracking Systems, Scientific Exploration Robots, Automated Plant Monitoring Robots) Arduino uno, motor drives, sensors.

Obstacle avoidance robot

Developed a robot that was capable of moving in the environment by avoiding the obstacle in path and move freely with the help of sensors like ultrasonic sensors.

Workshop on Drone technology for 3 days

Actively participated in a 3-day workshop dedicated to drone technology, where I gained practical insights into the operation, maintenance, and diverse applications of these aerial vehicles.

Workshop on Robot operating system for 7 days

Completed a comprehensive 7-day workshop focused on the Robot Operating System (ROS). Through this, I acquired hands-on experience in the development, simulation, and deployment of robotic applications utilizing the ROS framework.

Workshop on RC planes for 4 days

Attended a 4-day workshop that provided a thorough introduction to the realm of RC planes, where I learned about the fundamental mechanics, principles of aerodynamics, and control systems that govern radio-controlled aircraft.

Certificates

- Industrial Robotics : Theories for Implementation Jul-Oct 2024 course – NPTEL.
- Drone technology workshop.
- ROS workshop.