

## Bashaar Chawdhary

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### EDUCATION

- ❖ Bachelors of Engineering in **Robotics and Automation**  
JSS Academy of Technical Education, Bangalore CGPA: 7.92 | Dec '22 - Feb '25
- ❖ XII (State) | Christ Junior College, Bangalore 88.16% | 2022
- ❖ X (State) | Canaan Christ Public School, Bangalore 94.08% | 2020

### SKILLS

- ❖ Programming basics in
  - C
  - Python
  - Matlab
  - LabVIEW
  - Assembly Language Programming
- ❖ 3D Modeling
- ❖ Hydraulics and Pneumatics Circuit Design
- ❖ Softwares Worked on
  - Autodesk Fusion 360
  - Solid Edge
  - RoboDK - Robot Simulation Software
  - NI LabVIEW
  - KEIL uVision
  - Automation Studio
  - ROS (Robot Operating System)
  - Ansys Mechanical
  - Finite Element Analysis

### ACADEMIC PROJECTS

- ❖ **Autonomous Floor Cleaning Robot**
  - Developed a functional prototype of a cleaning robot featuring obstacle avoidance, vacuuming, and mopping capabilities.
  - Currently expanding the mini project into a fully autonomous self-navigating and mapping cleaning robot utilizing ROS-based SLAM for dynamic environment detection and mapping through various ROS simulation tools.
  - *Applied Skill Set:*  
ROS Noetic, Autonomous Navigation, SLAM (GMapping), Depth Sensing (Kinect 360), Arduino Programming, C++/Python for Robotics, Mobile Robot Design, Sensor Fusion (IMU + Odometry), Motor Control (PID), Gazebo and RViz Simulation, ESP32-CAM Object Detection and Obstacle Avoidance.

## ACHIEVEMENTS / HOBBIES

- Former School Athlete; awarded for excellence in football and athletics.
- Represented Junior College Football Team in intercollegiate tournaments.
- Member of College Table Tennis and Football Teams, participating in state-level and intra-college competitions.

### Hobbies and Interests

- Competitive Table Tennis and Football.
- Gaming and eSports Enthusiast.
- Skilled in Touch Typing (70+ WPM)