Atharva Bhosale
BTech
Mechanical Engineering
Indian Institute Of Technology, Tirupati

+91 8080-670-192
atharva1936bh@gmail.com
Github
LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (ME)	Indian Institute of Technology, Tirupati	7.7	2024-2028
Senior Secondary	Vidya Valley International School, Chinchwad HSC (MH) Board	86.33%	2024
Secondary	Podar International School, Chinchwad CBSE Board	95.8%	2022

EXPERIENCE

- **E-Yantra Robotics Competition 2025 (Holo Battalion)** *Aug 2025 - Jan. 2026*
  Student Remote
  - Wrote perception node purposes in a team of 3, improved accuracy for accurate and consistent pose estimation. Reduced development time by using various LLMs
  - Designed and developed an entire bot body and pcb.
  - Developed a ROS2 node that can control the holonomic bots with precision and follow the waypoints

- **Techmaniacs.** *Sept.2024 - Jan. 2026*
  Robotics Software Team Member On-Campus
  - Hands-on experience with Rigbetel Labs TourtiseBot, implemented SLAM, writing custom teleoperation and hardware interface node using Python ROS2 (Humble).
  - Hands-on experience with drone building, calibration of software, hardware, and wrote a program for geofencing a particular region in ArduPilot.
  - Conducted workshops for students to teach them the basics required for robotics.

PROJECTS

- **Simple Mobile Robotic Arm** *Dec. 2024*
  Development of a mobile robotic arm to demonstrate linear motion and basic pick-and-place operations Github
  - **Tools & technologies used**: ROS2 (Humble), XACRO, Gazebo
  - Demonstrated basic automation and teleoperation using Python scripting and ROS2 topics

- **Catch Nearest Turtle Game** *Dec. 2024*
  Simulates a turtle in the turtlesim environment that automatically catches the nearest turtle. Github
  - **Tools & technologies used**: ROS2 (Humble), Python
  - Created ROS 2 nodes to detect the closest turtle and move toward it until it's caught.
  - Parameters in the yaml file can be changed to play around with leader turtle.

- **Turtles Draw A Flower** *Dec. 2024*
  Simulates a group of 3 turtles in the turtlesim environment that can collaboratively draw a flower. Github
  - **Tools & technologies used**: ROS2 (Humble), Python, PID
  - Implemented PID control loop to improve the accuracy by 90%.

TECHNICAL SKILLS

- **Programming:** C/C++,Python
- **Tools & OS:** Git, Gazebo, Docker, Linux, Windows
- **Libraries/Frameworks:** ROS2, OpenCv, Numpy

KEY COURSES TAKEN

- Data Structure Algorithms, Introduction to Data Science And Machine Learning, Numerical Analysis

POSITIONS OF RESPONSIBILITY

- **Batch Representative,**Career Developement & Guidance Council, IIT Tirupati *Present*
- **Core Member,**TechManiacs Tech Club, IIT Tirupati *Aug. 2024 - Jan. 2026*

ACHIEVEMENTS

- **Secured 2nd Position** TechHeist Event, Tirutsava-25 *2025*

CERTIFICATIONS

- Udemy Cert on Nav2 With SLAM And Navigation, TFU|RDF|Rviz|Gazebo, Robot Operating System, Python