

Ram Pratiradh Ayalasomayajula

Nationality: Indian **Date of birth:** 04/12/2003 **Phone number:** (+91) 8546830079

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Home: Mylasandra, 560059 Bangalore (India)

WORK EXPERIENCE

Student Internship

Nano Ram Technologies [2022 – Current]

City: Bangalore | Country: India

EDUCATION AND TRAINING

Bachelor's in Technology in Robotics and Automation

JSS Academy of Technical Education [2022 – Current]

City: Bangalore | Country: India

12th Grade Karnataka State Board

Bunt's Sangha RNS Vidyaniketan [2020 – 2022]

City: Bangalore | Country: India

10th Grade Karnataka State Board

New Cambridge High School [2020]

City: Bangalore | Country: India

PROJECTS

[2024]

Bluetooth Controlled Robot

Built a Bluetooth-controlled robot that operates through a smartphone app using an ESP32 Bluetooth module. By programming the microcontroller and developing a simple user interface, I enabled wireless remote control of the robot for navigation and task execution. This project strengthened my knowledge of wireless communication, robotics programming, and hardware interfacing.

[2024]

Gesture Control Mobile Robot

Designed and developed a gesture-controlled mobile robot that responds to hand movements for navigation. Using an accelerometer and gyroscope, I integrated real-time gesture recognition to control the robot's movement, enhancing human-robot interaction. This project improved my skills in sensor integration, embedded systems, and wireless communication.

[2024]

TeliopTwist Keyboard

Implemented the TeleopTwist Keyboard in a ROS-based robotic system to enable keyboard-controlled navigation. By configuring ROS nodes and mapping keystrokes to velocity commands, I successfully controlled a robot in a simulated and real-world environment. This project enhanced my expertise in ROS, teleoperation, and autonomous system testing.

HONOURS AND AWARDS

[2022] National Rifle Association of India

National Level Air Rifle Shooter

I am a National-level Air Rifle Shooter, having participated in numerous competitions across the country. My shooting journey began in 2017 at the state level, where I honed my precision, focus, and discipline. Over the years, I have competed in prestigious national events, consistently refining my skills and showcasing exceptional marksmanship. My experience in competitive shooting has strengthened my mental resilience, patience, and ability to perform under pressure.

[2021] Forest Department Karnataka & Reroute Integrated Fitness

Tour de Karnataka

I am a professional endurance cyclist and successfully completed the Tour de Karnataka, covering 2,300 km across diverse terrains. This cycling expedition was organized in collaboration with the Karnataka Forest Department, promoting environmental awareness and sustainable travel. Throughout the journey, I navigated challenging routes, demonstrating resilience, physical endurance, and strategic planning. This experience has enhanced my discipline, perseverance, and ability to push limits in extreme conditions.

SKILLS

Auto CAD

ROS 1

Fusion Desk 360

Matlab

Robo DK

National Instruments (Lab View)

LANGUAGE SKILLS

Mother tongue(s): Telugu | Kannada

Other language(s): English, Hindi

HOBBIES AND INTERESTS

Cycling

Rifle Shooting

Athletics