ANAND D TUGASHETTI

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OBJECTIVE

To secure a position as a Robotics Engineer where I can apply my skills in automation and intelligent control to develop innovative robotic solutions and contribute to organizational success.

EDUCATION

JSS Academy of Technical Education | Bengaluru, India | December 2022 - Present *CGPA:8.16*
Bachelor of Engineering in Robotics & Automation

Tungal Science Composite PU College | Jamkhandi, India | June 2020 – June 2022 *Score: 73%*
Senior Secondary in Science

Royal Palace School | Jamkhandi, India | June 2019 - March 2020 *Score :73.6%*
Central Board for Secondary Education

PROJECTS

A Smart Vacuum Cleaner Robot

Built an autonomous vacuum cleaner robot using Arduino Uno, ultrasonic sensors, and motor drivers to navigate and clean indoor spaces. Integrated obstacle detection for collision avoidance and used Python to implement control logic and efficient path planning, enabling smart and seamless operation.

Mobile Robot using ROS

Developed a mobile robot using ROS, Raspberry Pi, and Arduino Uno to navigate and interact with its environment. Integrated ultrasonic and IMU sensors, encoder motors, and motor drivers for real-time obstacle avoidance and path planning. Utilized ROS for efficient sensor data processing and autonomous navigation.

Autonomous Obstacle Avoiding Robot

Designed and built an autonomous robot using Arduino Uno, ultrasonic sensors, and encoder motors to detect and avoid obstacles in real time. Employed motor drivers and servo motors for precise movement, with Python-based algorithms enabling intelligent path adjustment and smooth, collision-free navigation.

TECHNICAL SKILLS

Basics: Python, IOT , Analog & Digital Electronic Circuits , Hydraulics & Pneumatics.

Intermediate: Robot Operating System(ROS1), Modelling & Design For Manufacturing, Industrial Robot Simulation, Additive Manufacturing.

Tools: Autodesk Fusion 360, RoboDk, Gazebo, Automation Studio V8 , NI LabVIEW , Ultimaker cura.

CERTIFICATIONS

- Robot Arm in Industries Certificate - Infosys Springboard
- Additive Manufacturing Certificate - OpenLearn
- Industrial Robotics Certificate - Udemy