

RESUME

SUDHANVA K UPADHYA

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PROFILE SUMMARY

3rd-year B.Tech Robotics and AI student, passionate about building intelligent and efficient robotic and AI systems. I enjoy turning theoretical concepts into real-world solutions. With interests in coding, robotics, and AI, I focus on creating solutions that are not just functional, but optimized, reliable, and impactful.

SKILLS

Programming Languages :

- C
- Python
- C++
- PLC
- Java
- CNC G-code

Software :

- ROS2
- ABB RobotStudio
- CATIA
- Isaac Sim (Learning)
- KICAD
- NI-LabVIEW
- MATLAB
- Fusion 360
- Arduino IDE
- WPLSOFT

Key Strengths:

- Strong communication
- Interpersonal skills
- Strong problem-solving skills
- Self-motivated and proactive
- Ability to work independently and in teams

LANGUAGES

- English (Fluent)
- Kannada (Fluent)
- Hindi (Conversational)
- German (Beginner)

EDUCATION

SESHADRIPURAM COLLEGE 2021 - 2022

- Completed PU in PCMC with 83.66%.

N.M.A.M.INSTITUTE OF TECHNOLOGY 2023 - 2027 (expected)

- Currently pursuing B.Tech in Robotics & AI Engineering, 3rd year (6th semester) with 8.36 CGPA.
- Currently pursuing Minor Degree Program in Internet of Things.

PROJECTS

- Smart Parking System :**
Led the development and implementation of an IoT based smart parking system using Arduino
- Smart Differential Wheel Drive Mobile Robot :**
Developed a mobile robot using Arduino and OpenCV with ESP32 that can park on its own using ArUco markers.
- CNC Pen Plotter :**
Designed and created a working CNC pen plotter using Arduino and CNC shield
- Mecanum Wheel Robot :**
Developed a mecanum wheel mobile robot using Arduino and OpenCV with ESP32 that can navigate to different ArUco markers.
- 6-DOF Robot Arm :**
Created a working 6-DOF robot arm and custom software for robot arm control with record and playback functionality.

PROJECTS

- Drone (in progress) :
Programming and control of a drone integrated with various sensors.
 - CareNav (Major Project, in progress) :
Combining robot arm and mobile robot for hospital assistance application.
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INTERNSHIP

- FABLAB :
Completed an internship focused on IoT, Virtual Reality (VR), and 3D Printing. Gained hands-on experience in rapid prototyping and digital fabrication tools.
 - Experimind Labs PVT LTD :
Completed a 2-month internship involving work in CAD design, PCB development, and product testing. Contributed to the design and evaluation of hardware components and assisted in prototype development.
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REFERENCE

- Dr. Muralidhara Rao
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- Dr. Tanya Mendez
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