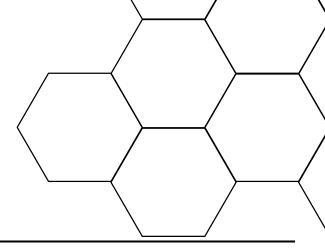
# **DILIP KUMAR S**

# ROBOTICS AND AUTOMATION



#### CONTACT

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#### **EDUCATION**

Bachelor of Technology in Robotics and Automation

RAJALAKSHMI ENGINEERING COLLEGE, CHENNAI.

#### RELEVANT COURSEWORK

Robotic System Design, Automation and control Systems ,Artificial Intelligence, Machine learning, EmbeddedSystems,Robotics Programming

#### TECHNICAL SKILLS

ProgrammingLanguage:

Python, Matlab.

**Robotics\_software**:ROS2(Robot Operating System),SolidWorks, AutoCAD(Basic)

Hardware: Arduino, Raspberry Pi,

Sensors, Actuators **Tools**: Git, Trello

# LANGUAGES

- English
   Full professional proficiency.
- Tamil Native or bilingual proficiency.
- Telugu
   Limited working proficiency.

#### **PROFILE**

With boundless enthusiasm, I am a second-year Robotics and Automation Engineering student, eager to transform classroom knowledge into real-world innovations. Passionate about robotics and problem-solving, my curiosity drives me to constantly seek new knowledge. As a fast learner, I am ready to tackle challenging projects and make a significant impact in the field of robotics and automation.

#### **EXPERIENCE**

#### P Robotics Lab

## **Instructor for Juniors**

- Assisted in assembling and programming robotic kits for college projects.
- Conducted basic troubleshooting and maintenance of project equipments.
- Supported junior students in their projects by collecting data and running simulations.

#### **PROJECTS**

**Human-Following Robot**: Designed and built a robot capable of following a person autonomously using computer vision and sensor integration.

**Autonomous Incineration Bot**: Applied for a design patent on a bot with a robotic arm capable of sorting waste and incinerating non-biodegradable materials to reduce landfill usage

**Computer Vision app:** Utilized Azure's Computer Vision API to implement features such as object detection, face recognition, and text extraction from images.

## CERTIFICATIONS

Aerial Robotics - Unmaned aerial vehicleUniversity of Pennsylvania- Coursera
Computer vision - Microsoft, IBM-Coursera
3D prinnting - Linkedin
Solidworks-linkedin, udemy