Logesh S

Robotics Engineer

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Dynamic Robotics Engineer with expertise in designing, developing, and implementing cutting-edge robotic systems and automation solutions.

Projects

Smart in-house Logistics Via ROS Environment (NIKIRO)

September 2024 - May 2025

- A fully autonomous mobile robot was developed, and a collaborative robot (MyCobot 280 Jetson Nano) was used for logistics.
- A mobile application developed with Flutter is used to control and interface with the environment.

A Digital Twin for Mycobot 280 JN

January 2024 - May 2025

- A Basic digital Twin for mycobot is ceated using Nvidia Isaac sim software.
- Contibuted in creating the realistic replica of the Mycobot environment using multiple 3d modelling softwares (Fusion 360,blender,Adobe substance suite) and integration of the hardware to the Ros2.

Scavenger and disinfecting Robot

June 2022 - May 2023

- This is a remote controlled mobile robot with 5 axis arm used to clean and disinfect the area.
- Contributed in the 3d modeling and fabrication of the chassis , robot arm and mobile application development.

Education

UG in Robotics and Automation (CGPA - 8.67) November 2021 - May 2025

Sri Ramakrishna Engineering College at Coimbatore

Minor Degree in Internet of things (CGPA - 8.37) November 2021 - May 2025

Sri Ramakrishna Engineering College at Coimbatore

Internship

Flo mobility pvt ltd June 2024 - July 2024

HSR Layout, Bengaluru, Karnataka, India

- Created a industry grade URDF for their MMR(Material Moving Robot)
- Created a Sand Dune Terrain for the simulation of the Mobile Robots.

KarthiKesh Robotics Private Limited January 2025 - February 2025

Online Internship

- Studied about the basics of ROS2.
- Simulation of AMR in the Gazebo.

Key Skills

- **ROS2**
- **3D modelling**
- **Programming Languages (C++,Python,Dart,C++)**
- **3D texturing and Rendering**
- **Simulation and Analysis**
- **Neovim**
- **Cloud Computing**

Accomplishments

Certificate for Japanese August 2021

Department of English(SREC)

- Japanese (Foreign Language) Subject Topper in the Second Semester (2021 - 2022)

Best final year project May 2025

Department of Robotics

- Recognized as Best Final Year Project for innovation and technical excellence in automating intra-facility logistics using ROS (Robot Operating System).

IEEE paper publication May 2025

ICCRTEE

- Presented the Simulation Paper on the "Smart in-house Logistics via ROS Environment" at Kalasalingam Academy of Research and Education.

Software and Frameworks

- **ROS2**
- **Solidworks**
- **genesis**
- **Adobe Substance suite**
- **Nvidia Isaac sim**
- **Fusion 360**
- **Docker**
- **AWS**

Languages

- **Japanese**
- **Mandarin**