



Darshan Kadiluvagilu Thimme Gowda

Senior Robotics Engineer

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Skills

Robot Operating System(ROS), ROS2

Python, C++, Shell script

Gazebo Simulator, Rviz Tool

OpenCV, Pointcloud Library(PCL)

Autonomous Mobile Robotics(AMR), Autonomous Flying Systems

Github, Bitbucket, Docker

PX4, Turtlebot, Rplidar, RGB-D, Hukoyo, Stereo camera sensors

Experience

Infovision Solutions India Pvt Ltd / Robotics Engineer

JAN 2021- PRESENT, Bengaluru, IN

Working as a Robotics Software developer *in* building autonomous drone software stack.

- Configured SITL, PX4, and MAVROS to simulate a quadrotor system.
- Worked on Manual drone control, Bezier line path generation, and Collinearity concept-based path pruning algorithms.
- Worked on 3D mapping tool, 3D global planning, 2D local costmap generation, static & dynamic object detection, and 2D local planning.

FluxAuto / Robotics Engineer

JULY 2019 -DEC 2020, Bengalur, IN

Worked as a Robotics Software Engineer for the development of indoor autonomous vehicles.

Company projects:

1. Autonomous golf cart.

- RTAB SLAM algorithm & sensor fusion to enhance state estimation.
- Ackermann steering kinematics-based control algo. development.
- Customisation of ROS navigation stack.

2. Autonomous forklift simulation framework for warehouse logistics.

- Forklift vehicle extraction, sensors and control plugins development.
- Warehouse environment creation and construction of 2D grid maps.
- Loading, unloading and emergency service call scripts development.
- State machine framework implementation to control logistics I/O.

Wipro Technologies Pvt. Ltd / Robotics Internship Trainee

AUGUST 2018 -JUNE 2019, Bengaluru, IN

Worked as a Robot Operating System (ROS) software development Intern.

- Hands on with turtlebot, turtlebot2 and UR5 robots
 - Practical implementation of online Mapping, SLAM, EKF, turtlebot navigation, auto docking, and human following algorithms.
 - Autonomous quadrotor simulation.
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Education

The National Institute of Engineering(NIE) / Master of Technology

SEPTEMBER 2017 - JUNE 2019, MYSURU, IN

Specialization: Industrial Automation and Robotics(IAR) - 9.02CGPA/10

Ghousia College of Engineering / Bachelor of Engineering

AUGUST 2013 - JULY 2017, RAMANAGARAM, IN

Specialization: Mechanical Engineering - 70.76 %

Mandavya PU College / PCMB

AUGUST 2011 - JUNE 2013, MANDYA, IN

Percentage: 70.81 %

Academic Projects

M.Tech project—

Autonomous navigation and path planning using quadrotor model in ROS.

Internship projects—

1. Turtlebot autonomous navigation using hokuyo lidar in ROS.
 2. Mapping environment based on human tracking robot odometry & RPLidar.
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Certifications

Flying Car and Autonomous Flight Engineer Nanodegree, Udacity

Python 3, Sololearn

Extra-curriculums & Awards

1. Attained a workshop on “**Artificial Intelligence and its application towards Robotics**” as a **Resource Person** at The NIE college during 2019-2020.
 2. Recognised as "**Most Innovative Player Award**" for an excellent contribution towards Robotics projects at Digit7 R&D labs during 2021-2022.
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Languages

English, Kannada, Hindi