



Hrithik Verma

Software Deployment Engineer | ROS Developer | Robotics Online Educator

My Contact

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Skill

- Programming: **python, c++, Lua, MATLAB**
- Robotics Related: **ROS, Robotics Toolbox Peter Corke, Robot Kinematics, PCL library, RTAB-Map**
- Simulator: **Gazebo, Unity, Coppeliassim**
- Image Processing: **OpenCV** in python & matlab
- Deployment: **Docker, Git**
- Communication Protocol: **tcp/ip, serial communication, mqtt** protocol
- CAD Designing: **Fusion 360, Blender**

Education Background

- B.Tech (Mechanical Engineering With Robotics as Minor)
Lovely Professional University, Punjab
2018 - 2022, CGPA - 8.67
- XII (CBSE)
DAV Public School, Brajrajnagar
2016 - 2018, Score - 83%
- X (ICSE)
Siksha Niketan, Brajrajanagar
Completed in 2016, Score - 83%

About Me

2+ years of experiences in **robotics industry** as we as made many **robotics course** having **9000+ enrolment** and worked on many robotics **freelancing projects**. My work has earned recognition from industry leaders like **Open Robotics**. I bring a wealth of experience in both **physical robot** development and **robotic simulation**.

More About Me & My Robotics Work: [Webite Link](#)

Experience

Software Deployment Engineer | Hi-Tech Robotics Systemz Ltd
2023 - Present

- Worked on variety of **indoor multi-mobile robots fms systems**.
- Worked on software development like **auto way-point generation, drop rejection** using sensors, **robot controller, robot docking** etc.
- Worked on both **on site debugging** and **software development** in HOD.
- Developed **ROS Unity Simulation** pipeline for robotics algorithm testing.
- Worked on communication protocol : **tcp/ip, serial, mqtt protocol**
- Skill Used: **ROS pkg** (like RTAB-Map, amcl, rosbridge etc), **docker, git, c++11 / python, path planning, debugging, fleet management system**

Robotics Freelancer | Fiverr
2021 - 2023

- Worked for **foreign companies** as well as for **research schoolers**.
- Developed some of exciting projects like **AMR/AGV Simulation, Omni wheel Multirobot** simulation with **MATLAB, Drone Controlled by Hand Motion, Drawing Robot Arm** etc.
- Skill Used: **MATLAB, Path Planning, c++11/python, Git, ROS**

Robotics Simulation Intern | Drishtri Works
2021 - 2022

- Responsible For **Developing & Testing Robot Algorithms**.
- Worked on both **Indore & Outdoor Mobile Robots**.
- Worked on **ROS** with Simulator like **Gazebo, Unity, Coppeliassim**
- Work on ROS packages like **robot_localization, gmapping, move_base, ROS Perception** etc.
- Skill Used: **ROS, c++/python, opencv, SLAM, Rviz, Git, Blender, Robot Dynamic's Testing, CAD Design, Design To URDF, Game Engine**

POSITION OF RESPONSIBILITY

- Winge in Indian Robotics Community (2020-21)
- Deputy Technical Head in Robotics and Intelligent System Community (RISC), LPU (2020 - 2021)
- Braking Department Head, Racing Sappers (2019 - 2020)

Achievements

2021	Robotics Domain Winner in IRCWEB EXPO 2.0
2020	Design Domain Winner in IRCWEB EXPO
2020	3rd Rank in International Go-kart Championship