MOHAMMED MAARUF VAZIFDAR

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EDUCATION

University of Maryland, College Park, Maryland   **August 2021- Present**
Master of Engineering, Robotics
SRM Institute of Science and Technology, KTR, Chennai   **July 2016- June 2020**
Bachelor of Technology, Mechatronics Engineering   Percentage- 79.12 %

TECHNICAL SKILLS

ROS, AWS RoboMaker, Solidworks, ANSYS, MATLAB, NI LabVIEW, Arduino, Python, C++, FluidSIM (P&H)

TECHNICAL EXPERIENCE

Drishti Works, Mumbai   **October 2020- June 2021**
Robotics Software Engineer- Intern
- Create realistic and robust robot simulations and environments using ROS and Gazebo to ensure the optimal performance of robots on deployment.
- Cloud based deployment, monitoring and management of robot applications using the AWS RoboMaker services.

SRM ASV   **September 2016- June 2020**
Mechanical Lead
- SRM ASV is a student research team which focuses on developing Autonomous Surface Vehicles.
- Responsible for Team management, Mechanical design, CFD Analysis, Fabrication and Prototyping of the boat hull and mechanisms.

Reliance Industries Limited, Silvassa Manufacturing Division   **June 2018- June 2018**
Intern
- Learnt about the working of Automatic Packing, Handling, and Storage of polyester yarn, Inductive power transfer for rail guided vehicles.
- Maintenance of Industrial manipulators, variable frequency drives and DC/AC motors, autonomous warehouse stacker cranes, rail-guided shuttles and conveyors.

Oil and Natural Gas Limited, Hazira   **December 2018- December 2018**
Intern
- Learnt about instrumentation and automation in processing plant, implementation of DCS, networking protocols, processing of petrochemicals.

PROJECTS

Development of an autonomous telepresence robot- Faby   **November 2019- September 2020**
- Developing a telepresence robot that can autonomously navigate through an indoor environment with dynamic obstacle, interactive features like bi-directional video conferencing, interactive user-interface, remote control over internet.

Telepresence Robot for Medical Assistance   **March 2020- May 2020**
- Develop a robot to assist healthcare professionals in hospitals during the Covid-19 pandemic.

Design and Simulation of an autonomous telepresence robot   **August 2019- November 2019**
- The aim of the project was to design and simulate a mobile robot in Gazebo with manual control and getting sensor feed from camera and Kinect.

Design and simulation of a Quadrotor aerial vehicle   **September 2019- November2019**
- Designed a quadrotor in Solidworks and simulated it in Gazebo with its controller made in Simulink.

Rotary Conveyor   **October 2017- October 2017**
- Designed and fabricated a pneumatically operated rotating conveyor controlled using Arduino.

CERTIFICATIONS

Introduction to Python – Datacamp   Credential Id- #**12481562**