Pruthvi Sanghavi

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Education

University of Maryland

College Park, Maryland

Masters of Engineering in Robotics

anticipated: May 2021

Classes Taken: Software Development, Path Planning, Computer Vision, Robot Modeling, Linear & Nonlinear Systems,

Statistical Pattern Recognition, Network Control System (Swarm Robotics)

LDRP Institute of Technology and Research

Gujarat, India

Bachelors in Mechanical Engineering

completed: May 2019

Classes Taken: Dynamics, Machine Design, Product Manufacturing, Thermodynamics

Technical Skills

Computer Language: C++, Python, Matlab, HTML and XML | Other platforms: Git, ROS (Robot Operating System)

Simulation Platform: Gazebo, Simulink, WeBots, Vrep, PyBullet, MUJOCO, Vissim, Anylogic, Unity, Robotarium |

Design: Autodesk Fusion360, SolidWorks, Creo Parametric | **Data Modeling**: Tensorflow, Pandas, keras |

Cloud Technologies: Google Colaboratory, Amazon Web Services | Libraries: OpenCV, Numpy, Matplotlib, Scipy

<u>Technical Experiences</u>

University of Maryland - Collective Dynamics and Controls Lab (CDCL) Supervisor: Dr. Derek Paley

Research Assistant - REZOOM (Self Driving Scooter Startup team)

Jan. 2020 - Present

- Working on the design and fabrication of a Self Righting Mechanism appendage for two wheeled vehicles.

National Science Foundation - ICORPS

Entrepreneurial Lead

Supervisor: Dr. Derek Paley

June 2020 - September 2020

- Conducted 33 interviews of the professionals in the shared electric scooter industry to collect insights and developed a scalable business model canvas.

NewMind Robotics

Supervisor: Nathan George

Robotics Engineering Intern

June. 2020 - July 2020

- Developed an application to connect and control an autonomous robot outside the wifi range.

Indian Space Research Organization

Summer Research Intern

Jan 2019 - May 2019

- Applied ML techniques for the analysis of remote sensing data of the Indian rivers.

Projects

Machine Learning: Face Recognition; Digit Recognition | Computer Vision: Lane Detection; Optical Tracker |

Motion Planning: A Star Algorithm; Dijkstra Algorithm | Control Systems: LOR-LOG Design

Patent Disclosure: Surveillance Robot | Self Driving Scooter | Self Righting Mechanism | Handle grip covers