Vaibhav Jain

vabsweb@gmail.com

+91 9650159152

Delhi, Gwalior

EDUCATION

Bachelor of Technology (B.Tech), Information Technology (2016 - 2020)

Cluster Innovation Centre University of Delhi

Percentage : 78.88%

XII (Senior Secondary), Science

Year of Completion: 2016

CBSE Board (Kiddy's Corner Public School)

Percentage : 91.60%

X (Secondary)

Year of Completion: 2013

CBSE Board (Kiddy's Corner Public School)

CGPA : 9.20/10

INTERNSHIPS

Robotics

Cluster Innovation Center, University Of Delhi (Delhi)

Jun 2017 - Jul 2017

Worked on a project under Prof. Shobha Bagai at Cluster Innovation Center, University of Delhi. The project was aimed at creating a robotic arm capable to mimic a human arm's motion using Kinect Sensor to generate 3D map of the user's environment.

POSITIONS OF RESPONSIBILITY

- Project Manager in Autonomi: Robotics Society at Cluster Innovation Center (January 2017 - Presently)

TRAININGS

Introduction To Seq-2-seq Neural Machine Translation

Google (Online)

Feb 2018 - Mar 2018

Introduction To Deep Learning

Udacity (Online)

Jan 2018 - Mar 2018

Introduction To Machine Learning By Andrew Ng

Stanford Online (Online)

Dec 2017 - Dec 2017

Lectures by Andrew Ng on Introduction to Machine Learning.

Introduction To Robotics

Stanford Online (Online)

Dec 2016 - Jan 2017

Course on physics-based modeling, design, planning, and control of robotic arm.

Control Of Mobile Robots

Coursera (Online)

Oct 2016 - Dec 2016

Course focuses on application of Linear Time Invariant control theory on mobile robots and different types of robotic modelling.

PROJECTS

Model of an agriculture field having Feeder and Weeder class robots using Swarm Robotics

Dec 2017 - Feb 2018

https://github.com/Vab-jain/eYRC-530---Feeder-Weeder

This project involves multiple robots cooperating to fertilize the plants and remove the weeds in a farm. The challenge is to collaborate and complete the fertilization and de-weeding in the most efficient manner.

Gesture Controlled Robotic Arm

May 2017 - Aug 2017

https://github.com/Vab-jain/Robotic-ARM-gesture-control

This project aims at developing a user-friendly interface to control a robotic arm using the gesture recognition. The robotic arm will try to mimic the motion of the user's arm motion. It allows fluid movements of robotic arm possible in real-time.

Stretegy for Acute angled turns by a Line Following Robot (LFR)

Jan 2017 - Apr 2017

https://github.com/Vab-jain/My-Adventitious-Projects

For LFRs based on White Line sensors, following a line becomes more difficult when it has acute angled turns. In this project, we propose a strategy to address this problem. We also conduct several experiments to support the success of our algorithm.

Trajectory Planning and its Application on Robotic Manipulator

Feb 2017 - Apr 2017

https://github.com/Vab-jain/My-Adventitious-Projects

Study of the Trajectory planning algorithms used in modern Robotic Manipulator Arms and application of Partial Differential Equations in the path planning

RoboAttack

Feb 2017 - Apr 2017

https://github.com/Vab-jain/RoboAttack

A browser based game which involves a problem based on graph theory. It involves creating random graphs and solves a problem of destroying path between k nodes in minimum weights.

Advanced Maze Solving Robot

Aug 2016 - Oct 2016

https://github.com/Vab-jain/LFR

We were able to design and code a two-wheeled Differential Drive Mobile Robot to follow a black line on a white board. Black line may form complex network of lines having curved or sharp turns.

Stock Management App

Feb 2018 - Present

This is an app designed for stock management, product display and creates stock issue record for Autonomi, the robotics society of Cluster Innovation Centre, University of Delhi.

An Innovative approach to Machine Translation

Jan 2018 - Present

Processing sequential data of variable length is a major challenge in a wide range of applications, such as machine translation. This project aims to improve the state-of-the-art models for language translation using a novel FS-RNN model approach.

Amazon Product Recommendation System using R

Mar 2018 - Present

In this project, we aim to create a machine learning model which will perform sentiment analysis on product reviews given by buyers on Amazon. This project will help the user to make a more informed choice.

SKILLS

C++ Programming
Advanced

C Programming
Advanced

Python
Intermediate

MATLAB
Intermediate

Java
Intermediate

Mathematics
Intermediate

Robotics
Intermediate

Arduino
Intermediate

HTML
Beginner

CSS
Beginner

JavaScript
Beginner

R Programming
Beginner

WORK SAMPLES

GitHub Profile:
https://github.com/vab-jain

ADDITIONAL DETAILS

- 1st place award, in 'Fastest Line Follower Robot' Competition, at Society of Robotics,
  DTU (Delhi Technological University)

- Conducted workshop on Introduction to Robotics: A hands-on session on Wall Following Robot and Arduino Programming

- Organising member of ROSPy jam: A meetup session for collaborative projects between ROS and RaspberryPy