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EDUCATION

Manipal Institute of Technology

Bachelor's in technology Computer and Communication Engineering

Delhi Public School Rajnagar Grade 12th

PCM + Computer Science

Manipal 2019 - Present

CGPA: 8.78/10

Ghaziabad

2019 93.75%

EXPERIENCE

FOO Solutions

July 2021 - Present

Java Backend Intern

- · Working on the server-side of TAMAM, a micro-lending platform, aimed at increasing financial inclusion in
- · Involved in creating various REST APIs and their integration with various third parties using Spring Boot.

Mars Rover Manipal

Oct 2019 – May 2021

Artificial Intelligence Member

- · Developed an autonomous traversal and search algorithm for a Mars Rover for searching AR tags and reaching them.
- · Developed an application using network sockets and OpenCV to retrieve real-time video feed from
- · Implemented visual odometery using various cameras like RealSense and Zed Cam.
- · Implemented a Real Time Kinematics GPS module for precision localization

PROJECTS

Self Submitting Form

2021

Developed a web app that triggers the deadline timer as soon as logged-in and submits automatically in database when timer elapses without using asynchronous programming. Used NodeJs, ExpressJs, CSS, HTML and MongoDB.

Pick and Drop Drone

2020

Simulated an autonomous drone on ROS Gazebo, that delivers packages to desired locations and implemented an algorithm for delivery and returns scheduling, in the most efficient manner. Also, implemented a Harr Cascade classifier for detection of the landing pad.

Tennis Ball Detection

Developed a robust custom algorithm to detect tennis balls in harsh lighting conditions. Used various classical techniques in OpenCV to achieve the expected detection.

ACHIEVEMENTS

- · Secured **2**nd **place** in SMVITM IEEE hackathon by creating a web app called **DigitalDukaanDaar**.
- · Contributed to the team that stood 2nd in Asia and 7th in worldwide in the University Rover Challenge 2020 held in the Utah, USA.
- · Secured the **3rd position** worldwide in International Mars Hackathon 2020.
- · Top 10 among 400 teams across India in E-Yantra Competition 2020 conducted by IIT Bombay.

POSITION OF RESPONSIBILITY

- Project Lead, European Rover Challenge 2021, managed 30 undergraduate students and secured 7th **position worldwide** for Preliminary Design Report.
- · Mentored more than 80 undergraduate students for Mars Rover Manipal AI Team 2021.

TECHNICAL SKILLS

Programming C++, Java, Python, SQL, CSS, HTML, C, BASH

Libraries & Tools Node, ExpressJS, MongoDB, Git/GitHub, Spring, ROS, NumPy,

Scikit

Hardware 3D Lidar, Stereo cameras, GPS, IMUs, Arduino, RPi

Experienced in Web Development, Robotics, Linux