



ANMOL AGARWAL

LINKEDIN: linkedin/in/anmolag10
E-MAIL: agarwalanmol3010@gmail.com

GITHUB: github.com/anmolag10
PHONE: +918800726449

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 Saudi Arabia.
- 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 the rover.
- Implemented visual odometry 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

2019

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 **2nd 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