

WORK EXPERIENCE

Mars Rover(Team InfernoDTU)

Aug 2018 – Jan 2019

Software and Autonomous Head

- The software is developed using Robot Operating System (ROS) framework which enabled us to concurrently design several components of the software and test in isolation.
 - The rover obstacle detection system worked accurately without any video feed lag.
- Designed system to calculate the path planning for autonomous navigation using pixhawk.
- Establishing data communication from remote distance to base station in real time.

Go-Kart(Team InfernoDTU)

Oct 2017– May 2018

Machine vision technical member

- Innovate and upgrade the software, hardware capabilities of the system to detect lanes & pedestrians.
- Integrating software with Raspberrypi in real time processing.

Defence Research and Development Organisation (DRDO) - Summer Intern 6 June – 26 July 2019

Trainee

- To study advanced manufacturing machine tools and welding techniques.
- Basic working of cryocooler and production of liquid nitrogen.

ACHIEVEMENTS

- Team Inferno DTU participated and won the 1st prize in skidpad and runner-up in autocross, at International Go-Kart Championship'18 (IGC'18)
- Team Inferno DTU participated at Indian Rover Challenge(IRC'19) held in Manipal Institute of Technology and secured 6th position among the 32 teams from 5 countries across the world.
- Completed 'Introduction to Psychology' on Coursera with 100% Grade.
- Completed 'Python Data Structures' on Coursera with 96.8% Grade.

EDUCATION

Delhi Technological University(formerly DCE)

Class of 2020

Mechanical Engineering (till 6th sem 6.07CGPA)

New Delhi,

India

Kendriya Vidyalaya, Masjid Moth

XII- 83% CBSE

2016

Kendriya Vidyalaya, Masjid Moth

8.8CGPA CBSE

X-

2014

SKILLS & INTERESTS

- **Skills:** Python; C++; machine vision; robot vision; artificial intelligence; MATLAB; robotic operating system; raspberry pi; arduino; pixhawk; solidworks; autocad; ansys; leading; management.
- **Interests :** Meeting new people; basic korean speaking and reading; avid novel; blog reader; documentaries on history and earth; animal facts; listening english classical(piano)

