

DIKSHANT RAJ

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GitHub | LinkedIn

EDUCATION

Course Name	Duration	University/Board	Percentage/CGPA
B.Tech Computer Engineering	2019 - 2023	Delhi Technological University, Delhi, India	8.84 CGPA
AISSCE (Class XII)	2019	CBSE, India	79.4%
AISCE (Class X)	2017	CBSE, India	10 CGPA

POSITIONS OF RESPONSIBILITIES

Software Design Engineer at INFERNO DTU

- Managed the Software Team of Inferno DTU developing a Mars Rover Prototype for the European Rover Challenge (ERC) with autonomous traversal capabilities over rough terrain coupled with obstacle detection and 3D/2D Mapping using a stereo camera and LIDAR

Co-Head Digital Media Team at ENGIFEST DTU

- Managed the Photography and Videography team of Engifest DTU. Created Fest Related Promotional Content and contributed to the After-Movie of the fest

PROJECTS

NOVUS Rover (Autonomous Martian Terrain Traversal Vehicle) Aug 2020 - Jun 2021

- Developing Autonomous Navigation System for Mars Rover Prototype for ERC using ROS
- Tech Stack:** Robot Operating System (ROS), Python, Arduino, OpenCV
- Link:** [dikshantraj09/MarsRover-Prototype-Inferno-ERC \(github.com\)](https://github.com/dikshantraj09/MarsRover-Prototype-Inferno-ERC)

Exploring Data Acquisition and Trajectory with Android Device Jul 2020 – Nov 2020

- Collecting data from different sensors from an android phone sending it over a wireless connection in real-time, plotting it on a 3D plot and storing it into an SQL Database for further analysis.
- Air Mouse Project is a sub project of this project using which you would be able to control the pc cursor using the IMU of the phone.
- Tech Stack:** Python, Kivy, SQL, Matplotlib, NumPy
- Link:** [dikshantraj09/Sensor_Data_Acquisition \(github.com\)](https://github.com/dikshantraj09/Sensor_Data_Acquisition)

Autonomous RC Car Jun 2021

- Developed an autonomous vehicle that can navigate unknown areas using a LIDAR.
- Autonomous RC Car using ROS, **Raspberry Pi-4**, Arduino and L298n Motor driver, RP-LIDAR.
- Link:** [dikshantraj09/Autonomous_RC_Car \(github.com\)](https://github.com/dikshantraj09/Autonomous_RC_Car)

House Photos NAS Jan 2021 - Feb 2021

- This Application uses Wi-Fi router's **ftp server** function to create a home **wireless NAS system** to automatically upload and download photos from the camera folder of the phone.
- Tech Stack:** Flutter, Python
- Link:** [dikshantraj09/NAS_Photos \(github.com\)](https://github.com/dikshantraj09/NAS_Photos)

SKILLS

Languages: Python, C++, C

Frameworks/Libraries: Robot Operating System, OpenCV, Flutter, Django

Creative Skills: Photography, Video Editing, UI/UX Design

ACHIVEMENTS

- Ranked Sixth Place** in **International Mars Hackathon** by Mars Society South Asia (MSSA)
- Ranked Sixth Place** in **International Planetary Aerial Systems Challenge** by MSSA
- NTSE (National Talent Search Examination) Scholarship** by NCERT
- Participated and Completed tasks in **Google Code-in**
- First Runner-up** Global Youth Online Photography Competition