RISHIRAJ RAJKHOWA

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EDUCATION

Birla Institute of Technology and Science Pilani, Goa Campus

July 2020 - Present

B.E. Electronics and Electrical Engineering

Birla Institute of Technology and Science Pilani, Goa Campus July 2019 - Present

M.Sc. Physics (Integrated)

TECHNICAL STRENGTHS

Computer Languages C/C++, Python, Assembly

Software & Tools HTML and CSS, Bash, Matlab, Unix, Arduino

EXPERIENCE

MCEME, Secunderabad (Indian Army)

May 2021 - July 2021 Lt. Col. Mihir Ghooi

 $Summer\ Internship$

· Worked in a team of 3 to generate 6 AI agents which simulated drones that could travel from a given point in plane to a point chosen by the user avoiding collisions in a randomly generated map.

- · A 360 degree laser scanner was setup on each drone in Gazebo, which allows it to locate and avoid obstacles on its own, hence removing the need for programmatic, or manual control and information parsing to each drone.
- The algorithm was set up and it is functional for obstacle avoidance as well as collision avoidance. Testing was successfully done in a randomly generated environment.

BITS Pilani, Goa

January 2021 - April 2021

Computation of electronic properties of semiconductors

Dr. Swastibrata Bhattacharyya

- · Explored various 2D semiconductor materials (Bi layer Graphene, Bulk & Mono-layer MoS2) and their electronic properties
- · Various Band structures were simulated, and the DOS calculations were done using DFT calculations in quantum espresso/BURAI.
- · A simple bash script was made to automate the computation process.

ACADEMIC ACHIEVEMENTS

Ranked in National Top 2% (amongst 1,200,000 candidates) in JEE Mains 2019

Ranked in the State-wise Top 1% (amongst 40,000 candidates) in State level Engineering competitive Exam (Assam CEE)

COURSES

- CS50 (Harvard)
- Fundamentals of Deep Learning NVIDIA
- AR Development Kalam Labs
- Computer Programming (CS F111)