

Mollah Md Saif

ROBOTIC ENTHUSIAST

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House-30/25, Shahi Bugh, Savar, Dhaka-1340, Bangladesh

As a passionate Robotic Enthusiast, I am dedicated to creating innovative and intelligent machines. With a strong background in Computer Science, I have developed a love for working in Embedded Systems and System Design. My academic focus is on Autonomy and Machine Vision. Also, I have worked on numerous esteemed robotic research projects, where I have even led some of them. In addition to my expertise in robotics, I also have experience in designing Electrical and Communication Systems for CubeSats.

KEY COMPETENCIES

Robotic System Design
Control Architecture Modeling
Python Programming

Computer Vision
Electronic System Design
Multi-body Simulation

Team leadership
Technical management
Communication

EXPERIENCES

AI/ML Engineer | Intern Jul 2023 - Dec 2023
Genofax

Responsibilities and Contributions:

- Learning and implementing Artificial Intelligence Models in healthcare systems.
- Developing Robust ML-based bioinformatics pipeline for taxonomic classification and profiling of Bacteria

Team Lead Nov 2021 - May 2023
BRACU Mongol-Tori, BRAC University, Dhaka

Responsibilities and Contributions:

- Providing guidance and direction to team members.
- Setting Goals and Objectives and Monitoring progress and performance.
- Designing, Implementing, and Optimizing Control System of Rover with C++, Python, and ROS.
- Worked with Power System Design, and made PCB with Autodesk Eagle.

Lead of OBC Mar 2022 - Jan 2023
Satellite Training Kit, LaSSET, BRAC University

Responsibilities and Contributions:

- Developing and programming On-Board Compute module for a CubeSat built for training purpose.
- Conducting research and experimentation on different communication protocols and architectures that are suitable for a 1U CubeSat.
- Creating an optimized flash memory firmware that enhances space efficiency while extending its lifespan.

Student Instructor Nov 2021 - Apr 2022
BUCC Academy, BRAC University

Responsibilities and Contributions:

- Taking supplementary online classes on fundamental and intermediate programming courses.
- Provided assistance to learners by resolving their queries through online learning platforms.

EDUCATION

B.Sc. in Computer Science and Engineering Jan 2020 - Present
BRAC University, Dhaka

Higher Secondary Certificate Jun 2017 - May 2019
Notre Dame College, Dhaka

Secondary School Certificate Jan 2012 - Mar 2017
Savar Cantonment Public School and College, Dhaka

Primary School Certificate Jan 2004 - Dec 2011
Junior Laboratory High School, Dhaka

SKILLS

Programming Languages : Python, C/C++, Java, R, Bash
Web Programming : HTML5, CSS, XML, MySQL, PHP, Jinja
Other Languages : Mathematica, LaTeX, Assembly, Verilog
Frameworks : PyQt, Processing, PyTorch, Tensorflow, Flask
Libraries : NumPy, scikit-learn, Pandas, Matplotlib, seaborn, scikit-bio
Software Tool : Git, Docker, Proteus, Gazebo, Eagle, Altera Quartus, Microwind, emu8086, LTSpice
Programming Applications : ROS, Arduino, FreeRTOS, Chocolatey
Linux Distro : Ubuntu, Raspbian, Linux4Tegra

CERTIFICATES

Electronic Systems and PCB Design Jul 2022
IEEE AEES, BRAC University SB Chapter

How Sensors are Making Better Urban Environments Oct 2021
IEEE Innovation at Work (PDH)

Python 3 Programming Specialization Oct 2020
Coursera

Java Programming and Software Engineering Fundamentals Specialization Jun 2020
Coursera

ACHIEVEMENTS

- Champion** of AUST Rover Challenge 2022, AUST
- 1st** in the National Round of KIBO Robot Programming Challenge 2022, JAXA
- Crew Award** in the KIBO Robot Programming Challenge 2022, JAXA
- 16th** in University Rover Challenge 2023, The Mars Society
- 9th** in International Rover Challenge 2023, Space Robotics Society
- 21st** in International Rover Design Challenge 2023, Space Robotics Society
- 3rd** Position in Intra-University Competitive Programming 2020, BRACU University

REFERENCES

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