

Emon Roy Bappy

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Personal Profile

An undergraduate student at Bangladesh University of Engineering and Technology, undertaking Mechanical Engineering major. Enthusiast about Microcontroller based control systems, Electromechanical Systems, and Robotics with two years of experience specializing in printed circuit board design and computer-aided design. Primarily, looking forward to working with soft robotics.

Education

Bangladesh University of Engineering and Technology

Dhaka, Bangladesh

BSc in Mechanical Engineering

Sept 2018 - Current

- Level 4 Term 1, CGPA 3.33/4.00

Notre Dame College

Dhaka, Bangladesh

Higher Secondary School Certificate

2016 - 2018

- Group-Science, GPA 5.00/5.00
- General grade scholarship, Dhaka Board

Sylhet GOVT. Pilot High School

Sylhet, Bangladesh

Secondary School Certificate

2014 - 2016

- Group-Science, GPA 5.00/5.00
- General grade scholarship, Sylhet Board

Work Experience

Team Interplanetar

Dhaka, Bangladesh

Member, Electrical and Communication Subteam

May 2020 - Present

- Build a Mars Rover capable of traversing through rocky terrain, collecting and processing specimen from environment, performing a variety of tasks.
- Constructed a 6 degree of freedom robotic arm from scratch.
- Technical Skills:** Altium PCB Designer, Soldering, Solidworks, Ubuntu, Robot Operating System
- Soft Skills:** Leadership, Logical Thinking, Teamwork, Time Management, Communication

Automaestro

Dhaka, Bangladesh

Member, Suspension Subteam

Dec 2021 - Present

- Build an automobile model for formula student competition.
- Technical Skills:** Solidworks, Ansys Workbench
- Soft Skills:** Presentation skills, Time Management, Communication, Logical Thinking.

Projects

Hilsha Bot

Dhaka, Bangladesh

Bangladesh University of Engineering and Technology

May 2022 - Sep 2022

- A bio-inspired underwater electromechanical system, capable of moving like a fish, and controlling its depth.
- An appliance for underwater investigation, marine environment protection, inspection of any underwater construction.

Skills

PCB Design	Altium PCB Designer, Proteus, EasyEDA
Simulation Software	Ansys Workbench
CAD	Solidworks, AutoCAD, Blender
Programming	C, Python, Matlab
Robotics	Arduino IDE, Robot Operating System
Miscellaneous	Microsoft Office, Ubuntu, LaTeX, Git.
Soft Skills	Teamwork, Problem-solving, Logical Thinking

Achievements

2022	Finalist , University Rover Challenge	<i>The Mars Society</i>
2022	Merit Award , BASIS NATIONAL ICT AWARDS	<i>BASIS</i>
2021	Champion , Sustainable Energy Innovation Challenge	<i>Bikiron</i>
2021	Champion , National Stem Competition	<i>bdSTEM</i>
2021	4th place , 2nd Kibo Robot Programming Challenge National Round	<i>JAXA</i>
2021	Innovation Award , International Planetary Aerial Systems Challenge	<i>Mars Society South Asia</i>
2016	8th position , National Round of 6th Bangladesh Physics Olympiad	<i>BdPhO</i>

Accomplishment

Mechanical Design Solidworks Associate

Credential ID C-9G7EDFK4NZ

Dassault Systèmes

Feb 2022

Languages

English Professional proficiency

Bengali Native proficiency

References

Dr. Md. Mahbub Alam

Assistant Professor

Department of Chemistry

Bangladesh University of Engineering and technology (BUET)

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