

# MD EASIN ARAFAT

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## Profile

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I am deeply passionate about robotics, artificial intelligence (AI), machine learning (ML) & fields that have the potential to transform how we live and interact with the world. For me, these are not just areas of study but powerful tools for innovation. The combination of algorithms and robotics excites me because it creates intelligent systems that can solve real-world problems and reshape industries.

## Education

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**BAF Shaheen College Dhaka,**  
*Higher Secondary Certificate (Science)*  
GPA:4.83/5.00

Apr 2022 – Nov 2023  
DHAKA, Bangladesh

**Adamjee Cantonment Public School,**  
*Secondary School Certificate (Science)*  
GPA:5.00/5.00

Jan 2020 – Dec 2021 | DHAKA, Bangladesh

## Research Experience

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**Paper Title: Efficient Route Planning and Navigation in Drones Using Pixhawk Autopilot**

- **Conference:** 6th International Conference on Artificial Intelligence, Robotics, and Control (AIRC 2025)
- **Location:** Georgia Southern University, Savannah, GA, USA
- **Dates:** 7-9 May, 2025
- **Publication:** IEEE Xplore
- **Indexing:** EI Compendex, Scopus

**Paper Title: Internet of Things and Artificial Intelligence Powered Crop Suitability Detection System for Sustainable Farming**

- **Conference:** 10 th INTERNATIONAL CONGRESS, ICICT 2025
- **Location:** America Square Conference Centre,17 Crosswall, London EC3N 2LB,United Kingdom.
- **Dates:** 18-21 February, 2025
- **Publication:** Springer
- **Indexing:** SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago

## Organizations

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**Dreams Of Bangladesh Company, Chief Technology Officer** Jan 2023 – present | DHAKA, Bangladesh

## Leadership

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**Dreams Of Bangladesh Robotics team, Technical Team Leader** Jan 2023 – present  
Working with my team to develop innovative robotics solutions, driving technical growth and leading projects that address real-world challenges.

**BAF Shaheen College Dhaka Information and Technology Club, President** Jan 2022 – Dec 2023

- President of a leading technology club, empowering students to develop skills in cutting-edge technologies.
- Spearheaded community initiatives to foster innovation and collaboration in the tech field.
- Successfully leading and managing a thriving community of tech enthusiasts, driving growth and development.

**National Tech Carnival 2.0, Sponsor** Dec 2024  
Sponsored and organized technology events to inspire student engagement and foster innovation in the technology field.

**BAF Shaheen College Dhaka Information and Technology Club Presents “TECH INTELLECT 2.0”, Organiser** Jul 2023  
A college-wide event featuring IT, Robotics and Technology competitions, fostering student skill development.

## Skills

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**Programming Languages:** Python | C | C++ | HTML | CSS, **Robotics Development:** ROS (Robot Operating System) | Arduino | Raspberry Pi | ESP32 | STM32, **Embedded Systems & IoT:** Arduino | Raspberry Pi | ESP32 | Orange Pi | Jetson Nano, **Artificial Intelligence (AI) & Neural Networks:** | Speech Recognition | Image Classification | Object Detection and Tracking, **Advanced Manufacturing:** Additive Manufacturing (3D Printing, SLM) | CNC Machining, Milling, Lathe Programming | Laser Cutting & Etching | Process Control & Automation in Manufacturing | Materials Science & Engineering for Manufacturing, **Space Systems & Robotics:** Space Robotics (Mars Rover, Lunar Landers) | Robotics for Space Exploration (Rovers, Drones)

## Personal Projects

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**Autonomous Fire Fighter Rover**

**Blind Gear**

**Cyclone Detector**

**Agriculture Robot V3 (Version 1 to 7, Prototype to field level)**

**Safety for Nature**

**Multipurpose octacopter Drone for Rescuing**

**IOT Based Home Automation System**

**Road Cleaing Robot (InteliSweep)**

**Road Repairing Robot (RoadMaster Pro)**

**Ai controlled Aerial Hexasky 6X**

**Nasa's Moon Rover (Mirage 1.0)**

**Autonomous underwater vehicle(Hydrojan)**

## **Awards**

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**Gold Medalist,6th World Invention Competition and Exhibition-2024**

25 Sep 2024

MAHSA University Malaysia

**Finalist, Nasa Human Exploration Rover Challenge 2025**

U.S. Space & Rocket Center

1 Tranquility Base

Huntsville, AL 35805

USA

**Champion,ICT Division Presents 6TH DRMC INTERNATIONAL TECH CARNIVAL 2023**

11 Feb 2023

Bangladesh

**Inventor Award,Digital Bangladesh Fair 2023 powered by ICT Division**

28 Jan 2023

Bangladesh

<b>Champion, 4th International Robo Tech Olympiad, 2024</b> Daffodil International University Bangladesh	19 Oct 2024
<b>Champion of Bangladesh, Techfest IIT Mumbai Presents I Tech Expo IUBAT 2023</b> Bangladesh	23 Nov 2022
<b>Champion, E-TECHNOVATION Rajshahi University of Engineering &amp; Technology 2022, Bangladesh</b>	22 Dec 2022
<b>1st RUNNER UP, Bangladesh University of Engineering and Technology ROBO CARNIVAL 2023</b>	20 Jan 2023
<b>Champion, 6th Rajshahi University Science Fiesta 2022,</b> <i>Bangladesh</i>	24 Sep 2022
<b>Champion, Bangladesh University of Engineering and Technology 2nd National Science Festival 2022, Bangladesh</b>	01 Feb 2022

## Courses

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<b>PYTHON for Kids, ROBO Tech Valley</b>	Apr 2022 – Jun 2022
<b>Robotics Basic to Advance, ROBO Tech Valley</b>	Jan 2022 – Mar 2022
<b>Programming ( C, C++, Python), ROBO Tech Valley</b>	Jul 2022 – Oct 2022

## Hobby

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**FPV Drone building & racing**

**Line Follower Robot building**

**Robot Football Player building**

**RC Car & Boat building**

**Bodybuilding**

**Solo Act**

**Cooking**