

# MD EASIN ARAFAT

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🇬🇧 BANGLADESHI ♂ MALE 💼 [linkedin.com/in/md-easin-arafat-09b43b319](https://www.linkedin.com/in/md-easin-arafat-09b43b319)

## EDUCATION

<b>BAF Shaheen College Dhaka</b> <i>Higher Secondary Certificate (Science)</i> GPA:4.83/5.00	Apr 2022 – Nov 2023 DHAKA, Bangladesh
<b>Adamjee Cantonment Public School</b> <i>Secondary School Certificate (Science)</i> GPA:5.00/5.00	Jan 2020 – Dec 2021 DHAKA, Bangladesh

## COURSES

<b>Robotics Basic to Advance</b>	<b>Robo Tech Valley</b>
<b>Programming ( C,C++, Python)</b>	<b>Robo Tech Valley</b>

## PROFESSIONAL EXPERIENCE

<b>1.Dreams Of Bangladesh Robotics Company</b> <i>Cheif Technology Office</i> <ul style="list-style-type: none"><li>• Led 60+ successful projects at Dreams of Bangladesh.</li><li>• Developed 25+ robotics products for diverse industries.</li><li>• Collaborated with organizations worldwide on robotics solutions.</li><li>• Delivered tailored robotics and tech solutions to local and global clients.</li></ul>	Jan 2023 DHAKA, Bangladesh
<b>2.BAF Shaheen College Dhaka Information and Technology Club</b> <i>President</i> <ul style="list-style-type: none"><li>•Promoted collaboration and growth among tech enthusiasts.</li></ul> Mar 2023 – Nov 2023DHAKA, Bangladesh <ul style="list-style-type: none"><li>•Conducted robotics training sessions for students.</li><li>•Organized a national and multiple intra-college robotics and technology carnivals.</li><li>• Successfully raised \$60K USD for the club through a national and multiple intra-college robotics and technology carnivals.</li><li>•Mentored multiple robotics teams in the college and invented many robots, earning numerous national and international awards.</li></ul>	Mar 2023 – Nov 2023 DHAKA, Bangladesh
<b>3.Team Shaheen</b> <i>Founder &amp; Team Leader</i> <ul style="list-style-type: none"><li>•Established <b>Team Shaheen</b> to innovate and develop advanced robotics.</li><li>•Led the creation of multiple robots, including the <b>Autonomous Firefighter Rover</b>.</li><li>•Secured numerous national and international awards under my leadership.</li></ul>	Jan 2016 – Dec 2022 DHAKA, Bangladesh

- Obtained \$28K USD in government funding for developing the Autonomous Firefighter Rover.

#### 4. Bangladesh Moon Lander Rover Team

*Co-Leader*

Nov 2024

DHAKA, Bangladesh

- Designed and built a functional rover for lunar exploration.
- Led the team to become a **finalist in NASA's 31st Human Exploration Rover Challenge (HERC) 2025**.

#### 5. SDITC Presents "TECH INTELLECT 2.0"

*Organizer*

Jul 2023

DHAKA, Bangladesh

- Led **SDITC Presents "TECH INTELLECT 2.0,"** an intra-college robotics and technology carnival.
- Secured \$5K USD in sponsorship for the event.
- Enabled participants to showcase exceptional skills in IT and technology.
- Inspired innovation and creativity in robotics and tech.

#### 6. Dreams Of Bangladesh Robotics Team

*Technical Team Leader*

Jan 2023

DHAKA, Bangladesh

- Directed the Team, driving innovative robotics research and development.
- Spearheaded the creation of advanced robotics projects with hands-on involvement.
- Provided technical guidance and fostered collaboration within the team.
- Contributed to groundbreaking robotic designs and solutions, enhancing team success.

#### 7. NEED Bangladesh

*Volunteer*

Mar 2023

DHAKA, Bangladesh

- Contributed to **NEED Bangladesh** in community welfare initiatives.
- Provided flood relief and donated winter clothes to those in need.
- Helped underprivileged children access education.

#### 8. Electronics and Robotics Club of Adamjee

*Founder*

Apr 2018

DHAKA, Bangladesh

- Established the **Electronics and Robotics Club of Adamjee**, one of the oldest school-level robotics clubs in Bangladesh.
- Created opportunities for school students to explore robotics and electronics, fostering early technical skills and innovation.

#### 9. DIGITAL BANGLADESH FAIR 2023

*Inventor*

Jan 2023

DHAKA, Bangladesh

- Created the **Autonomous Firefighter Rover**, showcased at the **Digital Bangladesh Fair**.
- Developed a groundbreaking robot capable of detecting and extinguishing fires autonomously, enhancing safety and efficiency.

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### PUBLICATIONS

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**1.Co Author, Internet of Things and Artificial Intelligence Powered Crop Suitability Detection System for Sustainable Farming.**

*10 th INTERNATIONAL CONGRESS, ICICT 2025. United Kingdom.*

**2.Co Author, Efficient Route Planning and Navigation in Drones Using Pixhawk Autopilot.**

*Georgia Southern University, Savannah, GA, USA. AIRC 2025.*

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## PROJECTS

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- 1.Autonomous Fire Fighter Rover: An innovative robot capable of detecting and extinguishing fires autonomously, replacing human firefighters in hazardous conditions.**
- 2.Blind Gear: A cutting-edge assistant for visually impaired individuals, featuring obstacle detection with vibration alerts and a virtual assistant for emergency support.**
- 3.Cyclone Detector: A real-time, low-pressure detection system that provides early cyclone warnings to save lives and reduce damage.**
- 4.Agriculture Robot V3(Version 1 to 7, Prototype to field level): An autonomous farming solution that waters, cares for plants, and performs field maintenance using soil data and image processing.**
- 5.Safety for Nature: A sustainable village model featuring a smart biogas plant and eco-friendly housing solutions to improve community living.**
- 6.Multipurpose Octacopter Drone for Rescuing: A versatile rescue drone capable of fire, flood, and drowning assistance, along with surveillance capabilities.**
- 7.IoT-Based Home Automation System: A smart system enabling remote control of household devices via IoT, with unique human clap sound instructions.**
- 8.Road Cleaning Robot (InteliSweep): A multifunctional robot for road cleaning, waste segregation, and intelligent fault detection, with cloud-based data storage.**
- 9.Road Repairing Robot (RoadMaster Pro): An autonomous road repair rover using AI for fault detection, material transport, and automated repairs.**
- 10.AI-Controlled Aerial Hexasky 6X: An advanced drone that monitors road maintenance, ensures quality assurance, and reports to authorities autonomously.**
- 11.NASA's Moon Rover (Mirage 1.0): A robust lunar rover designed for efficient exploration, object detection, and sample collection on challenging terrain.**
- 12.Autonomous Underwater Vehicle (Hydrojan): An intelligent underwater vehicle for deep-sea research, capable of data collection, mapping, and underwater soldering.**

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## SKILLS

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### Programming

Proficient in Python, C, C++, HTML, and CSS.

### Embedded Systems & IoT

Skilled in IoT hardware like **Orange Pi**, Jetson Nano, and STM32, with software tools like **MQTT**, **Node-RED**, and **AWS IoT Core**.

### Advanced Manufacturing

Proficient in **3D Printing**, **CNC Machining**, and 3D design with **SolidWorks**, **AutoCAD**, and **Fusion 360**.

### Robotics Development

Expert in **ROS**, Arduino, Raspberry Pi, **ESP32**, **STM32**, and integrating sensors, motors, and advanced control systems.

### Artificial Intelligence

Experienced in **Speech Recognition**, **Image Classification**, and **Object Detection**.

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## AWARDS

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1. Gold Medalist, 6th World Invention Competition and Exhibition-2024
2. Finalist, Nasa Human Exploration Rover Challenge, USA, 2025
3. Champion, ICT Division Presents 6TH DRMC INTERNATIONAL TECH CARNIVAL 2023
4. Digital Bangladesh Fair 2023 powered by ICT Division- Inventor Award
5. Techfest IIT Mumbai Presents I Tech Expo IUBAT 2023- Champion of Bangladesh
6. Champion, 4th International Robo Tech Olympiad, 2024
7. Bangladesh University of Engineering and Technology ROBO CARNIVAL 2023- 1st Runner Up in project showcase, University Level.
8. E-TECHNOVATION Rajshahi University of Engineering & Technology 2023- CHAMPION in project showcase University Level.
9. Bangladesh University of Engineering and Technology 2nd National Science Festival 2022 -CHAMPION In project Showcase University Level.
10. 6th Rajshahi University Science Fiesta 2022 -CHAMPION in project showcase College Level.
11. Robo Tech Olympiad 2023 -1st Runner-up in project showcase University Level.
12. 2nd Jahangirnagar University Science Festival 2018- 1 st Runner up in Project Showcase.
13. IUBAT TECHNOCRATS 2023- 1 st Runner-up In Drone Racing Competition University Level.
14. Champion, BAF Shaheen College Kurmitola National Carnival 2023
15. 1st Runner up, Dhaka College National Science Festival 2020
16. Champion, LCGHSSC National Science Festival 2019
17. 2nd Runner up in General Science Olympiad, LCGHSSC National Science Festival 2019
18. 2nd Runner up, 1st ACPSITC National IT Carnival 2017.
19. Champion, BAFSD National Carnival 2019
20. Champion, Mirpur Cantonment Public School and College Science and Business Carnival 2018
21. 3rd Runner Up, MASTERMIND INTER-SCHOOL SCIENCE FAIR 2019
22. Champion, Solo Act in National Cultural Week 2018
23. Champion, MAGGI Kids Culinario 2017 (Cooking Competition)
24. 1st Runners up, 2nd Astro Carnival independent University 2022
25. 1 st Runner Up, SAGC National Science Carnival 2017

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## INTERESTS

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FPV Drone building & racing, Line Follower Robot building, Robot Football Player building, RC Car & Boat building, Bodybuilding, Solo Act, Cooking.