

Ziya Mohammad Sayef Ullah

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[LinkedIn Profile](#)

Professional Summary

A passionate Electrical and Electronic Engineering (EEE) student at BRAC University with a strong background in **robotics, research, and social organization**. Gold Medalist at **WICE 2024**, recognized for developing innovative robotic solutions for agriculture and disaster management. Experienced in **mechanical design, automation, IoT, and power systems**. A dedicated mentor, instructor, and social leader contributing to technological advancements and community welfare.

Education

- **BRAC University** – BSc in Electrical and Electronic Engineering (2022 - 2026)
 - **Current CGPA: 3.42**
 - **Dhaka College** – Higher Secondary School Certificate (2019 - 2021)
 - **Result: 5.00**
 - **Burirchar Shaheed Ali Ahmed Memorial High School** – Secondary School Certificate (2014 - 2019)
 - **Result: 5.00**
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Publications

- **Deploying a Portable Ground Station for Effective Disaster Management in Bangladesh** – [ResearchGate Link](#) (74th International Astronautical Conference,

2023)

- **Assessment of IoT-Enabled Robotic Systems for Smart Farming** – [Global Scientific Journal Link](#) (Global Scientific Journal, October 2024)
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Skills

- **Robotics & Mechanical Design**
 - **Research & Development**
 - **Event Planning & Management**
 - **Project Management**
 - **Networking & Collaboration**
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Experience

Director of Research & Development, BUEEC (Dec 2024 – Present)

- Mentored **14 teams** for **Traction** **অভ্যুদয় 2025**, providing technical guidance and strategic insights.
- Managed and coordinated all **17 participating teams from BUEEC** for the event.
- Supervised **Impulse 2025**, leading planning and execution of exhibition booths and inter-university collaboration.
- Mentored **5 teams** in NRC 2025, including BOTBLUSTERS (1st Runner-Up, Mini Soccerbot segment).
- Led R&D projects in **robotics, IoT, automation, and mechanical systems**.
- Organized technical workshops, knowledge-sharing sessions, and project mentorship.
- Contributed to technical and managerial support for robotics innovations showcased in national tech exhibitions.

Mechanical Expert, Team Atlas (Sep 2024 – Present)

- Developed **Agrover**, an automated agriculture robot, winning the **Gold Medal at WICE 2024**.
- Designed **Flood Rescue Robot**, an autonomous rover for disaster management, deployed in Naraynpur, Cumilla.
- Built **Agrox**, an IoT-enabled agriculture system utilizing **NASA datasets** for real-time monitoring.

Instructor, Regal Defence Academy (Feb 2022 – Present)

- Provide training to **Inter Service Selection Board (ISSB) candidates**.
- Ensure students are fully aware of their tasks, emphasizing proper planning and execution.
- Focus on **group coordination, structured leadership, and effective communication** to achieve optimal results.

Organizational Secretary, Hatiya Student Forum (Nov 2024 – Present)

- Led community development projects, including educational support and medical assistance.
- Organized blood donation drives and mentorship programs for students.

Junior Executive of Finance & Marketing, Robotics Club of BRACU (Oct 2024 – Present)

- Managed financial and marketing operations to support club initiatives.
- Assisted in organizing robotics competitions and workshops to engage students in technical learning.
- Collaborated with sponsors and stakeholders to secure funding for club projects and events.

Scouting Experience

- Led and trained junior scouts in **outdoor survival skills, team coordination, and leadership development** as a **Senior Patrol Leader**.

- Actively contributed to **social initiatives**, including disaster relief operations and community welfare programs.
 - Completed multiple **outdoor and survival training programs**, focusing on teamwork, resilience, and leadership.
 - Acquired skills in **camping, first aid, and scouting leadership** through various scouting achievements.
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Projects

- **Agrover** – Automated farming robot with irrigation, planting, crop monitoring, soil testing, mapping, and solar-powered systems. Gold Medal and Special IYSA Award at WICE 2024.
 - **Agrox** – IoT agriculture solution using NASA datasets for real-time weather, soil, and disease data. Winner of NASA Space Apps Khulna 2024.
 - **Flood Rescue Robot** – Rescue robot with drone, camera, power delivery, and payload capacity. Deployed in Naraynpur, Cumilla.
 - **MechaHex** – Six-legged search and rescue robot with ESP32-CAM, sensors, and AI navigation for post-disaster missions.
 - **BRACU ALTER** – Modular rover designed for post-disaster rescue and terrain traversal.
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Honors & Awards

- **Gold Medal – WICE 2024** – Awarded for leading the development of Agrover.
- **Special IYSA Award – WICE 2024** – Recognized for agricultural innovation.
- **1st Runner-Up – Mini Soccerbot, NRC 2025** – Recognized for mentoring Team BOTBLUSTERS.
- **Best Junior Executive (Panel 23-24), BUEEC** – Awarded for leadership and event contributions.

- **Winner (Khulna) – NASA International Space Apps Challenge 2024** – Recognized for Agrox, an IoT agriculture solution.
 - **Champion - Energy Transition Segment, Climate Justice Idea Competition 2024** – Recognized for Agrover.
 - **The Duke of Edinburgh's International Award – Bronze Standard** – Achieved through volunteering and skill development.
 - **Twice Champion – Sheikh Russell Memorial Popular Science Speech Contest** – Recognized by the National Museum of Science and Technology.
 - **Best Scouts Award – Hatia Subdistrict** – Awarded by the Hatia Sub District Administration.
 - **Best Reader Award** – Recognized by the Secondary Education Quality and Access Enhancement Project.
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Certifications

- **Participation Certificate – MINDSPARKS 24** (Dec 2024) – Issued by AUST Innovation and Design Club.
- **Participation Certificate – National RoboFest 2024** (Nov 2024) – Issued by East West University Robotics Club.
- **Computer Hardware, Network and Troubleshooting** (Jun 2024) – Issued by MuktoPaath.
- **Digital Security Essentials** (Jun 2024) – Issued by the National Cyber Security Agency, Bangladesh.
- **Microsoft Word Basics** (Jun 2024) – Issued by 10 Minute School.
- **e-Awareness Olympiad - Cyber Safety & Preventing Violent Extremism** (Jul 2020) – Issued by USAID & WHO Health Emergencies Programme.
- **Fourth Comilla Regional Scout Rally** (Jan 2018) – Issued by Bangladesh Scouts.
- **Sixth District Scout Rally** (May 2017) – Issued by Bangladesh Scouts.
- **Participant – 5th National Power & Energy Camp** (Dec 2016) – Issued by the Ministry of Power, Energy & Mineral Resources, Bangladesh.

- **Participant – 4th National Power & Energy Camp** (Dec 2015) – Issued by the Ministry of Power, Energy & Mineral Resources, Bangladesh.
 - **Scout Week 2015** (Feb 2015) – Issued by Bangladesh Scouts.
 - **Second Subdistrict Scout Rally** (Jan 2015) – Issued by Bangladesh Scouts.
 - **Participant – Power Camp 2014** (Dec 2014) – Issued by Power Division & Bangladesh Scouts.
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