

Khandaker Siam Ahmed

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Experience

Project Altair – Mechanical & Manufacturing Subteam

Junior Executive | Nov 2024 – Present

- Contributed to CAD modeling, material selection, fabrication, and testing.
- Gained hands-on experience in mechanical design and troubleshooting.

Short Circuit – Co-Founder | May 2025 – Present

- Developed an online platform supplying electronics and robotics components for IUT students.
- Supported 15+ academic/extracurricular projects in the first quarter

Education

Bachelor of Engineering in Mechanical Engineering

Islamic University of Technology (IUT) | 2023 – 2027 (Expected)

Current CGPA: 3.63/4.00

Higher Secondary Certificate (HSC), Science

Government Science College | GPA: 5.00/5.00

Secondary School Certificate (SSC), Science

Motijheel Government Boys' High School | GPA: 5.00/5.00

Achievements & Honors

- **OIC Partial Scholarship** — Merit-based award by the Organization of Islamic Cooperation (USD 14,000)
- **Champion**— Cezeri Lab Annual Project Competition 2025
- **2nd Place** —Underwater Vehicle Design Competition, IIT Guwahati, India
- **2nd Runers Up** — Auto Sculpt Season 2 by IUT Automobile Society

Skills

- **Software:** SolidWorks (CSWA Certified), Proteus, Arduino IDE
- **Programming:** C, Embedded C, Python (basic)
- **Technical Areas:** CAD, Control System, Robotics, Embedded Systems, Instrumentation

Projects

Advanced Line Following Robot

- Integrated OLED display, rotary encoder, ultrasonic sensors, EEPROM menu system, and navigation logic.

Automatic Garbage Sorter System

- Designed ML-powered waste classifier with camera, servo mechanisms, and microcontroller integration.

Certifications

- **Certified SolidWorks Associate (CSWA)** – By Dassault Systèmes
- **IAENG Membership** – By The International Association of Engineers (IAENG)

Co-Curricular Activities

• Junior Executive at Project Altair (Mars Rover Team, IUT)

Contributed as a team member in the European Rover Challenge 2024 (Remote), the International Rover Design Challenge 2025, and the University Rover Challenge, where the team secured 18th position globally.

• Junior Executive at Project Aqua (Underwater Rover Team, IUT)

Achieved 2nd place in the Underwater Vehicle Design Challenge, IIT Guwahati, contributing primarily to animation in Blender and CAD modeling in SolidWorks