

# Maowa Alam Khan

Electronics and Communication Engineering Student

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## Profile

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Dedicated and enthusiastic Electronics and Telecommunication Engineering student with a strong interest in communication systems, embedded design and hardware innovation. Experienced in managing technical events and leading projects that merge engineering with real-world problem solving.

## Education

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### B.Sc. in Electronics and Telecommunication Engineering

2023 – Present

Chittagong University of Engineering and Technology (CUET)

CGPA: 3.50 / 4.00 (up to 5<sup>th</sup> semester)

### Higher Secondary Certificate (HSC)

2021

Brahmanbaria Govt. College, Dhaka — GPA: 5.00 / 5.00

## Experience

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### Program Coordinator — IEEE WIE Affinity Group, CUET

2025 – Present

Organized and coordinated national-level events, workshops and technical challenges promoting women in STEM. Contributed to planning, publicity and execution of WIE programs in collaboration with IEEE CUET SB.

### Volunteer — Department of ETE, CUET

2023 – Present

Assisted in technical sessions, academic events and departmental outreach activities.

## Projects

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### Biometric Attendance System (2025)

Designed a fingerprint-based attendance system integrating microcontroller and database for accurate and secure student logging.

### Echoes of the Hills: Indigenous People of Bangladesh (2025)

Developed an interactive educational website to preserve indigenous culture using HTML, CSS, JavaScript, and Firebase backend.

### Coin-Based Multiport Charging System (2026)

Building a cost-effective public charging solution controlled by coin input and microcontroller-based power distribution.

## Skills

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**Technical:** Circuit design, Microcontrollers, Communication systems, Embedded hardware.

**Programming:** C, C++, MATLAB, Python (basic), HTML/CSS/JS.

**Tools:** Proteus, Multisim, MATLAB/Simulink, Arduino IDE.

**Soft:** Event coordination, Leadership, Coordination, Teamwork.

## Achievements

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- 4th place, DLD Project Showcasing (2025)
- IEEE Bangladesh Section Student Branch Summit Participant (2024)

## Languages & Interests

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**Languages:** Bengali (Native), English (Fluent)

**Interests:** Embedded design, IoT devices, communication systems, event organizing, photography