

## Curriculum Vitae

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## Education

### **Bachelor of Science in Electrical and Electronic Engineering (EEE)**

Khulna University of Engineering and Technology (KUET)

**CGPA:** 3.27

**Duration:** March 2022 – Present

### **Higher Secondary Certificate (HSC), Science**

Notre Dame College, Dhaka

**GPA:** 5.00

**Duration:** June 2018 – December 2020

### **Secondary School Certificate (SSC), Science**

Panchkandi High School

**GPA:** 5.00

**Duration:** January 2013 – April 2018

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## Skills

### **Technical Tools & Languages:**

- C, C++, Python
- MATLAB (Signal Processing, Data Analysis)
- COMSOL Multiphysics (2D Material Simulation, Biosensors)
- PSpice & Proteus (Circuit Simulation & Design)
- KiCad (PCB Design)
- Arduino Programming (Smart Systems & IoT)

### **Workflow & Practices:**

- Embedded System Prototyping & Sensor Integration
  - Multiphysics Simulation for Biosensor Design
  - Efficient Circuit Design (PSpice, Proteus)
  - Clean Code Writing in C/C++/Python
  - Git & GitHub Version Control
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## Projects

### **Student Depression Analysis (Data Project)**

Analyzed mental health factors among students using Python and visualization tools.

### **Smart Car Parking System**

Built using Arduino Uno, IR sensor, RFID for efficient vehicle detection and display.

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## Research Interests

- 2D Materials (Graphene, Phosphorene, etc.)
  - Biosensors
  - Signal Processing
  - Smart Embedded Systems
  - Healthcare Monitoring
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## Awards & Achievements

- Champion, Content Creation – Seerah Competition, KUET
  - 1st Place, Poetry – Seerah Competition 2024
  - 1st Place, Astro Olympiad – National Eco & Space Carnival
  - 1st Place, Poster Presentation – National Eco & Space Carnival
  - 8th Place, Bangladesh Chemistry Olympiad
  - Talentpool Scholarship – SSC Exam, Monohardi Upazila
  - Certified: Data Analysis with Python – EDGE KUET
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## Leadership & Activities

### **Vice President** – KUET Adventure Club

Organized and led nature expeditions, hiking events, and treks.

### **Executive Assistant (Public Relations)** – KUET Radio

Handled event communication and public engagement.

### **Additional Secretary (IT & Aesthetics)** – Notre Dame Eco and Space Club

Managed design and technical aspects of exhibitions.

### **Teacher & Mentor** – Udvash Academic and Admission Care

Helped students with academic learning and guidance.

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## **Personal Interests**

- Traveling in winter, spring, and rainy seasons
  - Adventure, trekking, and cycling
  - Playing guitar, singing, and music composition
  - Gardening, storytelling, and reflective writing
  - Exploring cultures, tech documentaries, and cooking
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## **References**

Available upon request.