

MAHIN ANJUM

Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

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EDUCATION

Bachelor of Science (B.Sc.) in Electrical and Electronic Engineering,
Bangladesh University of Engineering and Technology (April 2019 – June 2024)
Major – Electronics
CGPA – **3.87** / 4.00

HSC: Notre Dame College, Dhaka
GPA: 5.00 out of 5.00 (Talent-Pool Scholarship)
Group: Science

SSC: Panchagarh B.P.Govt. High School, Panchagarh
GPA: 5.00 out of 5.00 (Talent-Pool Scholarship, 24th in Dinajpur Board)
Group: Science

RESEARCH INTEREST

VLSI, Electronic Devices, Biosensors, Machine Learning

PUBLICATIONS

Mahin Anjum¹, Sazzadul Islam² “*Performance Optimization and Linearization of a Two-Stage 26 GHz Double-Stage Single-End Low-Noise Amplifier Using Modified Derivative Superposition and Post-Linearization*”
Proceedings of 2025 IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN 2025) [Submitted]

EXPERIENCE

Lecturer, Bangladesh Army University of Engineering and Technology (BAUST)
01 February, 2025-Present

KEY SKILLS

- | | |
|-----------------------------|--|
| • Programming Language | : C, C++, Matlab, Python |
| • Framework and Libraries | : Django, Matplotlib, App Designer (Matlab) |
| • Simulation Software/Tools | : LTSpice, PSpice, CYME PSAF, Proteus, Cadence
Virtuoso, Cadence NC-Sim, EDA Playground, Matlab Simulink,
Silvaco Tcad |
| • Drafting Tool | : Autocad 2007 |
| • Computer Proficiency | : MS Office, Windows OS |
| • Web Development | : HTML 5, CSS |

- Hardware & Embedded System : STM-32, FPGA Module, ATMEGA Microcontroller, Arduino
- Language Proficiency : English, Bangla

PROJECTS

- Ordinary differential equation solver and filter design using MATLAB [[Files](#)]
- Voice based attendance system using Machine Learning (KNN) [[Files](#)]
- Line Following and Obstacle Avoider Robot using PID controller [[Files](#)]
- Message Transmission through LASER [[Files](#)]
- Analytical Behavior of HVDC Under Normal and Faulty Conditions [[Files](#)]
- Speed Control of DC Motor with Feedback from Digital Tachometer [[Files](#)]
- IOT based door lock system [[Files](#)]
- Low Dropout Regulator (LDO) design [[Files](#)]
- Electronic Fuse Design using Op-amp [[Files](#)]
- Four ways traffic controller using Digital Logic Design [[Files](#)]
- Nine story building design in AutoCAD [[Files](#)]
- I2C bus protocol using Verilog [[Files](#)]
- Experimental setup to measure L-I characteristics of LED [[Files](#)]

AWARDS AND ACHIEVEMENTS

- Recipient, Dean's List Award (July 2021)
- Recipient, University Merit Scholarship (July 2021)
- Recipient, University Merit Scholarship (January 2021)
- Admission Test Scholarship, January 2019
- National Champion at Olympiad 6th Bangladesh Physics Olympiad
Category: Secondary
Position: 2nd
- National Champion at Olympiad 8th Bangladesh Physics Olympiad
Category: Higher Secondary
Position: 16th
- Regional Champion at Regional Mathematical Olympiad
Regional Mathematical Olympiad **2014**
Category: Junior, Champion
Regional Mathematical Olympiad **2015**
Category: Secondary, 1st runner up
Regional Mathematical Olympiad **2016**
Category: Secondary, 2nd runner up
- Recipient, Board-Talent Pool Scholarship
Board of Intermediate and Secondary Education, Dinajpur
SSC-2016
Board of Intermediate and Secondary Education, Dhaka
HSC-2018

CORE COURSES

- | | |
|---|--|
| <ul style="list-style-type: none"> • Analog Integrated Circuits • VLSI circuits and Design • Digital signal Processing • Digital Logic Design • Compound Semiconductor Devices | <ul style="list-style-type: none"> • Power Transmission and Distribution • Electrical Service Design • Power System - 1 • Energy Conversion (2 Courses) • Power Electronics |
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- Microprocessors and Embedded Systems
- Process and Fabrication Technology
- Communication Systems (2 Courses)
- Electrical and Electronic Circuits (4 Courses)
- Control System
- Semiconductor Device and Materials (5 Courses)

EXTRA CURRICULAR ACTIVITIES

- Membership, BUET Robotics Society
 - Intern, Inovace Technologies (Nov,2023-Dec,2023)
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REFERENCES

Dr. Apratim Roy
 Professor,
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