

Nishat Anjumane Salsabila

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EDUCATIONS

Chittagong University of Engineering and Technology

July, 2025

B.Sc. in Electrical and Electronic Engineering

CGPA: 3.72/4.00

Position: 14 /180

Noakhali Govt. College

2019

Higher Secondary Certificate (HSC)

GPA: 5.00/5.00

Noakhali Govt. Girls High School

2017

Secondary School Certificate (SSC)

GPA: 5.00/5.00

SKILLS

► Technical:

- **Programming Languages:** C, C++, Matlab, Python
- **Quantum Mechanical Simulation:** Burai, VESTA
- **Design and Illustration:** AutoCAD
- **Markup Language:** Latex, HTML, CSS, Javascript, Github,
- **Electronic System Design:** Cadence Virtuoso, ADS, CST
- **Microsoft Office Suite:** Word, Powerpoint, Excel
- **OS:** Windows, Linux
- **Microprocessor Emulator:** Emu8086

► Language:

- Bangla
- English

THESIS

Gain-Tunable Low Noise Amplifier(LNA) for Advanced Medical Imaging System

Developed a high-performance LNA using a CG-CS architecture in 90nm CMOS technology. Subsequently improved the design by incorporating an input attenuator for variable gain, enabling its use in medical imaging applications.

PUBLICATIONS

- **Nishat Anjumane Salsabila**, Susmita Barua, Mohammad M. H. Tareq, and Quazi Delwar Hossain, Design of a Multi-Stage Common Source LNA with Enhanced Gain and Noise Performance for SIGINT Applications, IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking, 2025. [Click Here](#)
- **Nishat Anjumane Salsabila**, Design of a two-stage Broadband Stable Power Amplifier for Low Power Wireless Telemetry Systems using 90 nm CMOS Technology, IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking, 2025. [Click Here](#)
- **Nishat Anjumane Salsabila**, Data-Driven Modeling of a Wideband Power Amplifier for Performance Prediction and Feature Analysis, arXiv (Submitted). [Click Here](#)
- Nusrat Jahan, **Nishat A. Salsabila**, Susmita Barua, Mohammad M. H. Tareq, Quazi Delwar Hossain, Ramisha Anan, Jannatul Maua Nazia, Wideband CMOS Variable Gain Low-Noise Amplifier with integrated Attenuator for C-Band Wireless Body Area Networks, Chips, MDPI. (Accepted)

TRAININGS

• Mastering VLSI and Semiconductor Techniques

Organizer: IEEE CUET WIE Affinity Group (Student branch)

Timeline: 12 and 13 January, 2025

• Internship at Dhaka Electric Supply Company Limited (DESCO)

Organizer: DESCO, Dhaka

Timeline: 24 November, 2024 - 24 December, 2024

- **Introduction on Solar System Planning, Design, Installation, and Operation for Engineering Students**

Organizer: Consumer Association of Bangladesh(CAB)

Timeline: 20 August, 2024 - 7 September, 2024

ONLINE CERTIFICATIONS

- **Machine Learning With Python.** [Click Here](#)
- **Introduction to Deep Learning & Neural Networks.** [Click Here](#)
- **Deep Learning with Keras and Tensorflow.** [Click Here](#)
- **IBM Advanced Deep Learning Specialist badge.** [Click Here](#)

SYNERGISTIC ACTIVITIES

- **Member**, IEEE CUET Student Chapter
- **Member**, Robo Mechatronics Association, CUET

REFERENCES

- **Dr. Quazi Delwar Hossain**

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Chittagong University of Engineering and Technology

Email: quazi@cuet.ac.bd.

- **Mohammad Mahmudul Hasan Tareq**

Assistant Professor, Department of EEE

Chittagong University of Engineering and Technology

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