

Shaeeekul Ameen

shaeeek159@gmail.com | +8801778973046 | Rampura, Dhaka-1219



PROFESSIONAL EXPERIENCE

Military Institute of Science & Technology

Lecturer – Full Time, Dept. of Electrical, Electronic & Communication Engineering

*Dhaka, Bangladesh
August 2023 –Present*

Southeast University

Lecturer – Part Time, Dept. of Electrical &, Electronic Engineering

*Dhaka, Bangladesh
January 2024 –Present*

Manarat International University

Lecturer – Part Time, Dept. of Electrical & Electronic Engineering

*Dhaka, Bangladesh
January 2024 –May 2024*

EDUCATION

Ahsanullah University of Science & Technology

B.Sc. in Electrical & Electronic Engineering

CGPA: 3.861/4.00

*Dhaka, Bangladesh
April 2018 – December 2022*

Undergrad Thesis: Quantum Simulation Study of Carbon Nanotube Field Effect Transistor with High ‘k’ Di-electrics

Notre Dame College

Group: Science

GPA: 5.00/5.00

*Dhaka, Bangladesh
July 2015 - May 2017*

Ideal School & College

Group: Science

GPA: 5.00/5.00

*Dhaka, Bangladesh
February 2015*

ACADEMIC HONORS

- Dean’s List of Honor in all four academic years 2022
- H.S.C Board Scholarship, Dhaka 2017

PUBLICATIONS

- “Parametric Dependency of Charge Transport in a Carbon Nanotube-Based Field Effect Transistor: A Numerical Simulation”. 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India, 2023, pp. 1-6
- “Parametric Simulation Study of Control Coefficients on the On-Off Current Ratio of Single-Walled Carbon Nanotube Field Effect Transistor”. European Journal of Electrical Engineering and Computer Science. 7, 5 (Oct. 2023)
- “Performance Analysis of Thickness Dependency of Control Coefficients of CNTFET”. Conference: 2024 6th International Conference on Electrical Engineering and Information & Communication Technology.
- “Numerical Analysis of Diameter Dependency of Control Coefficient of Carbon Nanotube Field Effect Transistor”. Majlesi Journal of Electrical Engineering 18(2):1-7.

ACADEMIC PROJECTS

- *Underground Fault detection device*
Using Arduino Uno faults in power line system was detected and analyzed at several distances.
- *Noise Reduction using MATLAB*
Using MATLAB to record voice, filter the recording through mathematical analysis and reduce the background noise.
- *Wireless DC motor control using generic remote*
Controlling a DC motor with a remote control, a 555 timer, or power electronics devices is useful for day-to-day device control.

➤ *Two-way traffic system using Arduino Uno*

Building a traffic control system that helps control the traffic in congested areas, keeping in mind that the whole system should be cheap and easy to maintain.

RESEARCH INTEREST

- Semiconductor: Material, modelling & devices.
- Nanoelectronics.
- Optoelectronics.
- Bio Electronics.
- CNTFET based modeling and simulation, characterization & quantum devices.

TECHNICAL SKILLS

- Programming Languages: C, C++, MATLAB, Verilog, HTML
- Tools: Google Workspace, Git, Visual Studio, Codeblocks, MATLAB, Arduino
- Simulators: Orcad Pspice, Quartus, Proteus, Cadence, AutoCad, TinkerCad.
- Design Software: Adobe Photoshop, Adobe Illustrator,
- Office tools: Microsoft Word, PowerPoint, Excel

PROFESSIONAL AFFILIATIONS

- Assistant officer in charge: VLSI Laboratory, MIST *2023-Present*
- Technical & Organizing member, 6th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) *2024*
- Institute of Electrical and Electronics Engineers (IEEE) *2022-2023*
- AUST Innovation & Design Club *2018-2022*

PROFESSIONAL TRAINING

- Basic Safety Training, Samsung C&T Safety Academy *December 2022*

SYNERGISTICS ACTIVITIES

- Member, AUST EEE Society (Organizer) *2022*
- Participant in Walton laptop represents Mindspark'22 *2022*
- Participant in Hult Prize at AUST *2019*
- Participant in Bangladesh Model United Nations *2017*
- Winner in Project Showcase, Notre Dame Science Festival *2017*
- Project Finalist, Green Inspiration International Summit *2016*
- Cub Scout, Shapla-Cub-Award winner *2009*

REFERENCE

1. Md. Faysal Nayan
Assistant Professor
Department of Electrical & Electronic Engineering
Ahsanullah University of Science & Technology
Phone: +8801673068868
Email: faysal.nayan.eee@aust.edu
2. Mr. Faisal Farhan
Lecturer
Department of Electrical & Electronic Engineering
Ahsanullah University of Science & Technology
Mobile: +8801778726056
Email: faisalfarhan.eee@aust.edu