A.K.M. Aktaruzzaman Shuvo

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Education

2019 - 2023 **Ahsanullah University of Science & Technology**
B.Sc. in Electrical & Electronic Engineering

2016 - 2017 **Gaibandha Government College**
Higher Secondary Certificate (HSC) - 2018

2014 - 2015 **Gaibandha Govt. Boys' High School**
Secondary School Certificate (SSC) - 2016

Experience

June - Sept. '24 **Lecturer**
BGMEA University of Fashion Technology
The job responsibilities included conducting three theory courses and five lab courses preparing question papers, administering exams, and creating course files for OBE courses.

July '23 Intern **- Industrial Motor Controlling Techniques with Project**
Ulterior Engineering, Dhaka, Bangladesh
Industrial devices such as relay logic control, motor controlling center (MCC), wye-delta starter, Direct Online, Resistance control, and VFD control were taught to execute machines.

May - June '22 Research Training - **Thesis and Research Publication Guideline**
AbartanBD, Online
This outlines crucial details regarding thesis writing and research methodologies.

Presentations

Feb. '25 2025 International Conference on Electronics and Renewable Systems, India

March '23 Research Symposium 2023: An Intra AUST Research Exhibition – Bangladesh

Skills

Software Tools Homer Pro - Cadence virtuoso - Proteus - MATLAB - OrCad Pspice - AutoCad - Power world simulator - Origin - Visio - MS Office 365

Hardware Arduino Uno - Arduino Nano - ESP8266 NodeMCU - MPU-8086

Programming Language C - C++ - Python (Basic)

Language Bangla(Mother tongue) - English(Fluent)

Projects

- A Notch filter designed to eliminate noise from an ECG signal using **MATLAB**.
- MicroController-based Energy Efficient Escalator using **Arduino Uno** | **Teamwork**
- 2D illustration of 800 sq ft Flat and Electrical Load Connection Design using **AutoCAD**.
- Designing a voice signal recorder and use of filtering in MATLAB | **Teamwork**
- Optimum Power Control at Different Loading using **Current Injector** Device | **Teamwork**
- Design of a **PID** controller for Electric traction motor Control in Simulink.
- Different **CMOS SRAM** Circuits' Implementation and Performance Analysis -**Cadence Virtuoso**
- SG3525 PWM Inverter 12V to 220V, 300W using two IRF-520 transistors | **Teamwork**

Publications

- **Comparative Techno-Economic Feasibility Analysis of Hybrid Renewable Energy-based EV Charging Stations in a Developing Country**-2025 International Conference on Electronics and Renewable Systems (ICEARS) - *https://doi.org/10.1109/ICEARS64219.2025.10940582*

- **Investigation of Electric Properties of Bismuth Ferrite Nanoparticles at Various Temperatures** - Undergrad Thesis - Supervised by Prof. Dr. Md. Meganur Rhaman

Extra-Curricular Activities

Jan. '22 – Nov. '23	**AUST Programming Club (AUSTPIC)** *Executive Member* Volunteered at programming contests and participated in different workshops led by AUSTPIC.
June - Nov. '23	**AUST Research & Publication Club** *Executive Member* Participated in “Research Symposium 2023: An Intra AUST Research Exhibition” and workshops to develop academic skills.

References

Prof. Dr. Md. Meganur Rhaman
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Dr. Fakir Sharif Hossain
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