




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

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

Intern - Industrial Motor Controlling Techniques with Project
Ulterior Engineering, Dhaka, Bangladesh
July '23 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 - Jun. '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 '24 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

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| Jan. '22 – Nov. 23 | AUST Programming Club (AUSTPIC)
<i>Executive Member</i>
Volunteered at programming contests and participated in different workshops led by AUSTPIC. |
| June - Nov. '23 | AUST Research & Publication Club
<i>Executive Member</i>
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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