

Md. Mohiuddin Suman

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Research Interests

- Renewable Energy Integration
- Distributed Energy Resources (DERs)
- Dielectric Aging Mitigation
- Transportation Electrification
- Smart Distribution Systems
- Power System Dynamics
- Battery Energy Storage Systems (BESS)
- Inverter-Based Resources (IBRs)

Education

B.Sc. in Electrical and Electronic Engineering (EEE): Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh.

- Major: Power System, Minor: Electronics
- February 2015 – April 2019 | CGPA: 3.41 / 4.00
- Undergraduate Thesis: Optimization of A Pumped Hydro Storage Based Standalone Photovoltaic Power Generation System in the Maheshkhali Island of Bangladesh. [[Thesis Link](#)]

Higher Secondary Certificate (HSC): Chittagong City Corporation Premier College, Chittagong, Bangladesh.

- Year: 2014 | GPA: 5.00 / 5.00

Secondary School Certificate (SSC): Latifpur Alhaj Abdul Jalil High School, Chittagong, Bangladesh.

- Year: 2012 | GPA: 5.00 / 5.00

Professional Experience

Electrical Engineer: Bangladesh Power Development Board (BPDB), Chittagong, Bangladesh.

November 2021 – Present

- Troubleshooting of 33 kV & 11 kV feeder lines, outdoor/indoor breakers and panels.
- Hands-on and ETAP-based relay coordination analysis of 33/11 kV substations.
- Utilized Python for data extraction and technical analysis.

Electrical Engineer (Power Transformer R&D): Energypac Engineering Ltd., Dhaka, Bangladesh.

January 2021 – November 2021

- Gained insights on power transformer design and costing.
- Prepared Guaranteed Technical Particulars (GTP) as per client requirements.

Technical Skills

- Programming: Python, C, C++
- Graphics & Design: AutoCAD
- Embedded Systems: Proteus
- Simulation Tools: ETAP, HOMER, MATLAB, PSpice, Quartus, PSAF.
- Productivity: MS Word, PowerPoint, Excel.

Undergraduate Projects

- Noise Cancellation of An Audio Using Adaptive Filter (in MATLAB).
- Temperature Monitoring System Using Basic Gates.
- Heart Rate Monitoring System Using Arduino.
- Double Layer Security System Using Dorsal Hand Vein Pattern (in MATLAB).
- Electrical Wiring Design of a Two-storeyed Building in AutoCAD.
- Automatic Braking System (Arduino & Video Processing).
- Demonstrating E-menu Ordering System.

Awards & Honors

- National Board Scholarship for Excellence in HSC, 2014.
- Regional Round Selectee – Bangladesh Physics Olympiad (BdPhO), 2014.

Professional Training

- “Relay & Protection, Fault Level Calculation, Setting, Coordination and DCS (Basic)”

Chittagong Training Center, BPDB, Chittagong.

- “Renewable Energy, Net Metering and Green House Effect”
Chittagong Training Center, BPDB, Chittagong.

Notable Visit

- National Load Dispatch Center (NLDC), Aftabnagar, Dhaka – January 16, 2019.

Language Proficiency

- English – Fluent
- Bengali – Native

References

Professor, Dept. of EEE, BUET (Advisor): Dr. Apratim Roy

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Professor, Dept. of EEE, BUET (Thesis Supervisor): Dr. Sharif Mohammad Mominuzzaman

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