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Date Of Birth : 3rd March, 1998
Nationality : Bangladeshi



Md. Abu Nayeem

Summary

Open-minded and adaptive to the critical way of thinking. Hard-working, attentive, and devoted to a distinctive task in a given time. Have experience working with CST Studio, MATLAB, C++, and other auxiliary tools, nevertheless, always equipped to assimilate with a new way of working, quick learner, and ability to assume responsibility. Received dean's list award for 5 times consecutively and got two paper published in an international conference in the final year of bachelor's degree. Currently seeking opportunities to be involved in higher studies, which will lead me to take on real-life challenges and secure a firm position in the engineering industry.

Work Experience

February 2021 - Present **Probationary Assistant Engineer.**
Power - Energy Management and Engineering Company (PEMEC), Dhaka, Bangladesh.
Job description: Assisting senior engineers in implementing a project of Dhaka Power Distribution Company (DPDC), in conjunction with Tractebel Engineering Pvt. Limited titled "**Consultancy service to improve voltage profile and power factor of the distribution network of DPDC through the installation of appropriate size capacitor banks at the optimum location.**"

Education

2016–2020 **Bachelor of Science in Electrical & Electronic Engineering (EEE).**
American International University-Bangladesh (AIUB), Dhaka, Bangladesh
3.87 on a scale of 4.00

2013–2015 **Higher Secondary Certificate (HSC).**
DR. Mahbubur Rahman Mollah College, Dhaka, Bangladesh
5.00 on a scale of 5.00

2011–2013 **Secondary School Certificate (SSC).**
Siddhirganj Rebati Mohan Pilot High School, Narayanganj, Bangladesh
4.94 on a scale of 5.00

Publications

- 1 M. M. Rahman, M. A. Nayeem, S. Nahid, S. R. Bin Alvee, R. Rashidul Hasan, and M. A. Rahman, "On-Body Humidity Sensing Antenna with Polyimide for BAN Applications over 5G Networks," 2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS), DOI: 10.1109/IEMTRONICS51293.2020.9216331, Electronic ISBN: 978-1-7281-9615-2.
- 2 F. A. Niloy, M. A. Nayeem, M. M. Rahman, M. N. Ud Dowla, "Blockchain-Based Peer-to-Peer Sustainable Energy Trading in Microgrid using Smart Contracts," 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), DOI: 10.1109/ICREST51555.2021.9331007, Electronic ISBN: 978-0-7381-3042-2.

Academic Excellence

Dean's List Award, *Spring 2016-17, Fall 2017-18, Spring 2017-18, Fall 2018-19, Spring 2018-19.*
Academic Scholarship, *Fall 2017-Spring 2020.*

Academic Projects

Fall 2019- **On-Body Temperature and Humidity Sensing Antenna With Fabric & Polyimide for BAN**
Spring 2020 **Applications Over 5G Networks.**

Project Type: Final Year Project

Designing of a D Flip Flop using Cadence Virtuoso.

Course: VLSI Circuit Design

Flood Warning and Sewage Line Water Level Monitoring System.

Course: Microprocessor and Embedded Systems

Technical Skills

Programming Languages C, C++, Python

Operating Systems Windows, Linux

Tools Multisim, Proteus, Matlab Simulink, Cadence Virtuoso, RETScreen, HOMER, ETAP, LaTeX.

Skills Microcontrollers, Sensors, Automation, Very Large-Scale Integration (VLSI), Printed Circuit Board (PCB), AutoCad 2D.

Certificates, Workshop & Activities

- 1 **Qualified for final round in Blockchain Olympiad Bangladesh 2021**, *Issuing Organization: bcolbd.org, Team Name : De-Force.*
- 2 **Crash Course on Python**, *Issuing Organization: Coursera, Credential ID: PUMZZXDX6SC.*
- 3 **Energy Production, Distribution & Safety**, *Issuing Organization: Coursera, Credential ID: VCK6GX7YYC8J.*
- 4 **Participated in a workshop on "Modelling Physical Systems With MATLAB Simulink & Simpower"**, *Organized by : IEEE AUST Student Branch.*
- 5 **Attended a seminar on "Challenges and Opportunities of High Solar PV Penetrations to National Grids"**, *Organized by : IEEE AUST Student Branch.*

Area Of Interest

- **Power Electronics.**
- **Industrial Automation.**
- **Power Engineering.**
- **Renewable Power and Technology.**
- **Power Generation.**
- **Embedded Systems.**

Courses Undertaken

ANALOG ELECTRONICS , ELECTRONIC DEVICES, DIGITAL LOGIC DESIGN, PROGRAMMING LANGUAGE 1 & 2, SIGNAL & LINEAR SYSTEM, DIGITAL SIGNAL PROCESSING, VLSI CIRCUIT DESIGN, MICROPROCESSOR AND EMBEDDED SYSTEMS, DIGITAL DESIGN WITH SYSTEM [VERILOG,VHDL & FPGAS] , ELECTRICAL POWER TRANSMISSION & DISTRIBUTION, POWER SYSTEMS ANALYSIS, RENEWABLE ENERGY TECHNOLOGY, POWER SYSTEM PROTECTION.

Linguistic Proficiency

- **Bengali**, *Native proficiency.*
- **English**, *Professional proficiency.*
- **Hindi**, *Limited Working Proficiency.*

Reference

- **Md. Saniat Rahman Zishan.**
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Associate Professor, Department of Electrical and Electronic Engineering & Computer Engineering.
Faculty of Engineering, American International University-Bangladesh (AIUB), Dhaka, Bangladesh.
Email: saniat@aiub.edu.
- **Dr. Md. Rifat Hazari,[MIEEE].**
Assistant Professor, Department of Electrical and Electronic Engineering.
Faculty of Engineering, American International University-Bangladesh (AIUB), Dhaka, Bangladesh.
Email: rifat@aiub.edu.