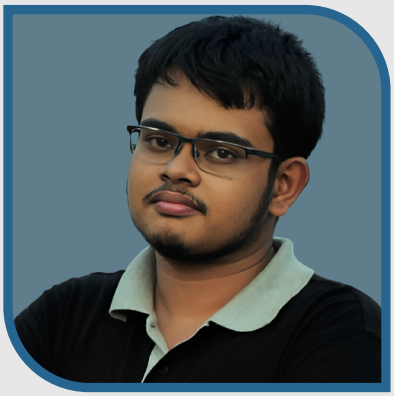

Md Mahbub Ali

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Language

English

Skills

- MATLAB Simulink
- Eagle PCB, Proteus
- Arduino IDE
- MS Office, Google Editors

About Me

Dedicated master's student in energy engineering and passionate about electrical power and energy systems. Actively seeking a technical student job to apply academic expertise professionally.

Working Experience

Jan,2021 - Aug,2023 **Volunteer Research Assistant** Energy Research Group

The Energy Research Group is a power and energy assessment research team in the Department of Electrical and Electronic Engineering (EEE) at BRAC University comprising undergraduate and graduate students who are supervised by professors and lecturers for working on their thesis projects.

- Conducted academic research on the performance and feasibility analysis of photovoltaic systems under the supervision of my thesis supervisor and a lecturer.
- Attended a couple of virtual workshops as an instructor on photovoltaic system design and assisted three undergraduate thesis teams in developing methods and assessing cumulative solar energy.

Jan,2022 – Jun,2022 **Research and Development Intern** Aqualink Bangladesh Limited

- Developed a few protection circuit designs and applied them to various advanced electronic system designs.
- Experienced with installing and operating an IoT-based I/O controller device on the panel board to control the exhaust centrifugal fan using a variable frequency drive (VFD).
- Enjoyed working with three different professionals (electronics, software, and business) in a team.

Education

Current **MSc. in Energy Engineering** Aalborg University

- Current academic project: fractional frequency transmission system for offshore wind power.

  Working on designing and simulating a three-phase cyclo converter to step up the source frequency.

  Trying to design the transmission cable parameters based on the Pi model.
- Studying breakdown voltage, corona effect observation, and high voltage testing in a laboratory and theoretical course on high voltage engineering.

Jan,2016 - Dec,2020 **BSc. in Electrical and Electronic Engineering** BRAC University

- **Final year thesis project:** PERFORMANCE STUDY OF BIFACIAL MODULE BASED TIME VARYING MULTILEVEL SOLAR PANEL SYSTEM (MSPS).
- Studied power plant engineering, energy conversion, and power electronics.
- Designed and implemented a power distribution system and a main control circuit board for a four-wheeler astronaut assistant robot.