

# Md. Nahin Islam

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## Education

- BRAC University, Dhaka  
Bachelor of Science in Electrical and Electronic Engineering  
CGPA: 3.44/4.0, September 2022
- Adamjee Cantonment College, Dhaka  
Higher Secondary Certificate  
GPA: 5.0/5.0, 2018
- Banani Bidyaniketan School & College, Dhaka  
Secondary School Certificate  
GPA: 5.0/5.0, 2016

## Academic Projects

- Final Year Design Project: “Hybrid Energy System: Power Generation from Renewable Sources for Coastal areas in Bangladesh”.
  - Researched on different types of hybrid renewable systems for coastal areas of Bangladesh and designed a prototype of Solar-Wind Smart Hybrid System using microcontroller.Project duration: 1 year
- Microprocessor and Interfacing Course Project: “Count Number of Visitors in a Room based on Entry and Exit through the Doors”.
- Digital Electronics Course Project: “Elevator Control System Using Digital Logic”.
- VLSI Design Course Project: “Design a 4-bit ALU capable of performing 8 different arithmetic and logical operations using Verilog HDL and verify using timing diagram”.
- Renewable Energy System Course Projects:
  1. “Optimization and techno-economic analysis of a solar PV/Wind/hydro/diesel/battery hybrid off-grid power generation system for rural remote electrification.”
  2. “Sizing of a Grid connected Rooftop PV system for home using PVSYS”.

## Academic Awards

- Merit Scholarship based on Brac University Academic Result for the semesters Summer 2020 and Fall 2020.
- General Scholarship 2013 Education Ministry of Bangladesh based on JSC Exam Result.
- Talent pool Scholarship 2010 from Education Ministry of Bangladesh based on PSC Exam Result.

## Conference Presentation

- M. N. Islam. “Off-Grid Renewable Hybrid Energy System for Coastal Areas of Bangladesh”, Presented at the 4<sup>th</sup> International Conference on Energy and Power (4<sup>th</sup> ICEP), 11-13 December, 2022. Military Institute of Science and Technology (MIST), Dhaka, Bangladesh.

## Skills

- Microsoft Office: Word, Excel, PowerPoint
- Software Tools: Proteus Professional, MATLAB Simulink, HOMER Microgrid, PVSYS, Pspice
- Adobe: Lightroom, Photoshop
- Basics of Robotics, Photography

## Extra-Curricular Activities

- Winner on the “Soccer Bot” segment of “SPECTRA 2.0”, an intra Brac University Tech Fest 2022.
- Instructor for “Basics of Robotics Workshop” organized by Robotics Club of Brac University Arts & Design Department.
- Assistant Director of Robotics Club of Brac University Arts & Design Department (2021-2022).