

# Fahim Tawfiq Khan

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in Fahim-Tawfiq-Khan

## Experience

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**Research Assistant** Dhaka  
*BRAC James P Grant School of Public Health, BRAC University* September 2023 – Current

- Conducted factory based case studies for techno economic analysis of rooftop solar installations
- Participated in the creation of tools for a large-scale survey aimed at understanding the policy frameworks influencing the adoption of renewable energy technology in the apparel sector, covering 400 RMG factories

## Education

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**BRAC University** January 2019 – May 2023  
*BSc in Electrical and Electronic Engineering*

- CGPA: 3.65/4.0

**Notre Dame College** 2018  
*Higher Secondary School Certificate*

- GPA: 5.0/5.0

**Comilla Zilla School** 2016  
*Secondary School Certificate*

- GPA: 5.0/5.0

## Publications

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*A Data-Driven Approach for Comparative Estimation of Solar PV Output in Dhaka Using Various Tilt Angle Optimization Techniques* March 2024  
**Fahim Tawfiq Khan**, Kazi Mohammed Omar Alif, Md Naimur Rashid, A.S.Nazmul Huda

[10.1109/ICDRET60388.2024.10503759](https://doi.org/10.1109/ICDRET60388.2024.10503759) [🔗](#)

## Projects

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**Automatic Load Sharing Between Hybrid Sources in Household Applications**

- Designed a hybrid system that facilitates power sharing between the grid, solar, and storage based on load demand
- Tools Used: MATLAB, HOMER Pro, Proteus

**Optimal Battery Sizing for Grid-Connected Rooftop Solar Photovoltaic Systems in Bangladesh**

- Determined optimal battery sizing by conducting a techno-economic assessment of various components in a hybrid system
- Tools Used: MATLAB, Excel

## Skills

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**Industrial Automation:** PLC, VFD, MCC and RLC

**Softwares:** MATLAB, Simulink, PVsyst, Homer Pro, Proteus

**Programming Language:** C, Python