

## PRIYANKA DAS DEWAN

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## Profile Links

[LinkedIn](#)   
[ResearchGate](#)   
Priyanka Das Dewan 

## Education

### Master of Science in Renewable Energy Technology

*Institute of Energy, University of Dhaka [October, 2016 – April, 2018]*

**Final Grade:** CGPA 3.81 out of 4 (Class position - 7<sup>th</sup> out of 90 graduate students)

### Bachelor of Science in Electrical and Electronic Engineering

*BRAC University [ May, 2009 – April, 2013]*

**Final Grade:** CGPA 3.60 out of 4 (Top 12% among the graduate students)

### Higher Secondary Certificate

*Siddheswari Girls' College [June, 2005 - July, 2007]*

**Final Grade:** GPA 4.60 out of 5

## Workshop & Seminars

Shamma, T., **Dewan, P. D.**, Abbas, A. & Mondol, R.(2012), “*Design & VLSI Implementation of High-Performance Face Recognition System*”. 1<sup>st</sup> Women in Engineering (WIE) Workshop of Electrical and Computer Engineering, BUET, Dhaka, Bangladesh: IEEE.

Biwas, S., **Dewan, P. D.**, “*Energy Efficiency Improvement CDM Project (POA) in the Brick Manufacturing Industry*”. 17<sup>th</sup> National Renewable Energy & Green Expo-2017 on Institute of Energy, University of Dhaka, Bangladesh.

## Selected Project(s)

**Project Name:** Design & Development of Dust Level Detecting & Cleaning System of Solar PV Panel

**Level:** Master Thesis, Institute of Energy, University of Dhaka

**Duration:** 6 months

**Details:** The accumulation of dust on the surface of a photovoltaic module decreases the radiation reaching the solar cell and produces losses in the generated voltage and power. A prototype system was designed with Arduino IDE. Simulation results detected power loss due to dust accumulation.

**Project Name:** Design & VLSI Implementation of High- Performance Face Recognition System

**Level:** Undergraduate Thesis, BRAC University

**Duration:** 8 months

**Details:** Face recognition algorithm (Fast Fourier Transform) and BRAC university student's database was trained with MATLAB. FPGA board was chosen for hardware implementation.

## Research Interests

Nano Technology, Power Electronics, Data Communications, Sustainable Development, Internet of Things

## Standardized Test Score

### International English Language Testing System (IELTS) – 10<sup>th</sup> December, 2020

| Overall | Listening | Reading | Writing | Speaking |
|---------|-----------|---------|---------|----------|
| 7       | 7.5       | 7       | 7       | 6.5      |

## Professional Development

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- **Crash Course on Python**  
*Offered by: Google • Coursera [January, 2021 – March, 2021]*
- **The Data Scientist's Toolbox**  
*Course Instructor: Jeff Leek, PhD • Johns Hopkins University • Coursera [July, 2020 – September, 2020]*

## Work Experience

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### Assistant Engineer

*Turbo Power Limited • Full Time [August, 2018 – Present]*

- Worked with Project Manager to coordinate in energy auditing, development, design, and execution of a project named Micro – Scale Standard Solar PV Program of Activities (POA).
- Calculated load levels and material stress factors using RETScreen to identify design constraints.

### Teaching Assistant

*BRAC University • Part Time [October, 2019 – April, 2020]*

- In conjunction with the course instructor, plan and implement the daily curriculum and activities of courses (PHY 110 and PHY 111).

### Trainee Engineer

*Turbo Power Limited • Full Time [March, 2015 – July, 2018]*

- Maintained customer satisfaction by investigating concerns, communicating with the team and providing customer feedback.
- Supported in- house energy modelling team in developing technical and energy models.

## Technical Skills

|                      |         |        |           |         |             |           |
|----------------------|---------|--------|-----------|---------|-------------|-----------|
| Engineering Software | AutoCAD | Pspice | Microwind | Quartus | Arduino IDE | RETScreen |
| Programming Software | MATLAB  | JAVA   | Python    |         |             |           |

## Affiliations

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- Associate Member of Institute of Engineers, Bangladesh (IEB)
- Student Advisor at Dhaka University Research Society

## Awards and Extra- Curricular Activities

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- Awarded the prestigious Vice – Chancellor Award certificate for achieving GPA- 4.0 out of 4.0, BRAC University at Summer, 2010 and Fall, 2012.
- Awarded the prestigious Dean Award certificate for achieving GPA- 3.80 out of 4.0, BRAC University at Spring, 2012.
- Volunteering work in e-Asia International Conference 2011.

## References

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**Name: Dr. Md. Habibur Rahman**

**Designation:** Professor

**Organization:** Electrical & Electronic Engineering Department, University of Dhaka

**Phone Number:** +880-2-9661900/7361

**Email:** [mhabib@du.ac.bd](mailto:mhabib@du.ac.bd)

**Name: Abu Shahadat Md. Ibrahim**

**Designation:** Assistant Professor

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