

## Rabayet Sadnan

E-mail: [rabayet.sadnan@wsu.edu](mailto:rabayet.sadnan@wsu.edu) Contact: +1 (509) 592 1295

### RESEARCH INTEREST

Microgrid, Distribution System, Renewable Energy, Power System, Power Electronics

### EDUCATIONAL BACKGROUND

Name of the Degree	Educational Institution	Year	CGPA
Master of Science in Electrical and Electronic Engineering	Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh	July 2017	3.83/4.00
Bachelor of Science in Electrical and Electronic Engineering	Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh	Sept 2015	3.87/4.00
Higher Secondary Certificate (HSC) Examination	Notre Dame College, Dhaka, Bangladesh	Aug 2009	5.00/5.00
Secondary School Certificate (SSC) Examination	Government Laboratory High School, Bangladesh	Aug 2007	5.00/5.00

### WORKING EXPERIENCE

**Oct 2016 – present (On Study Leave):** *Lecturer*, Electrical & Electronic Engineering Department (EEE), School of Science & Engineering, United International University, Dhaka

**Aug 2017 – present:** *Graduate Assistant*, Electrical Engineering & Computer Science Department (EECS), Washington State University, USA

### UNDERGRADUATE THESIS

*“Analysis of Simultaneous Transmission of AC-DC Power Through an Existing AC Transmission Line”, Supervisor: Dr. Md. Quamrul Ahsan (Professor, Dept. of Electrical and Electronic Engineering, BUET, Dhaka, Bangladesh).*

### MASTERS THESIS

*“Developing a grid-tied PV inverter which can be quickly and efficiently controlled for desired real and reactive power supply”, Supervisor: Dr. Md. Ziaur Rahman Khan (Professor, Dept. of Electrical and Electronic Engineering, BUET, Dhaka, Bangladesh).*

### CONFERENCE PUBLICATION

**Rabayet Sadnan** and Md. Ziaur Rahman Khan, *“Fast real and Reactive Power Flow Control of Grid-Tie Photovoltaic Inverter”, ICECE 2016 conference, BUET, Dhaka*

Mohammad Tawhidul Alam, **Rabayet Sadnan**, Irtiza Haque, Mushfequr Rahman, and Md. Quamrul Ahsan, *“Loadability Improvement of an Existing AC line by Transmitting Simultaneous AC and DC Power”, ICECE 2016 conference, BUET, Dhaka*

A B M Samsuzzaman, **Rabayet Sadnan** and A.S.M. Jahid Hasan, *“Wind Farm Transient Stability Improvement by Fuzzy Logic Controlled Series Variable Resistor”, ICECE 2016 conference, BUET, Dhaka*

### UNDERGRADUATE PROJECTS

Design of a Microcontroller based oscilloscope; design of a digital LC meter (Measurement project); Design of an 8-bit microprocessor with 16 instruction set in Proteus (Microprocessor); GSM based home security system (Microcontroller); Logic code based bar code reader (Digital Logic design); Development of an efficient line follower car using PID algorithm (Control system); Full design of a PV-Hybrid Microgrid for remote village and analysis of power flow for small grid using Simulink.

### TECHNICAL SKILLS

- **Simulation tool:** Simulink, PSpice, Quartus, Proteus (ISIS & ARES), OPENDSS.
- **Numerical analysis:** Matlab.
- **Programing and hardware description language:** C, C++, Verilog and Assembly
- **Microcontroller programming:** AVR studio, Arduino, MikroC.
- **Other:** Visual Basic, Microsoft SQL, MS Word, MS Excel, MS Power point

### ACADEMIC AWARD

- **Dean's List Scholarship** from Bangladesh University of Engineering and Technology (BUET) (for all semesters).
- **BUET Stipend**, For excellent academic performance.
- **Technical Scholarship** from BUET, Higher Secondary Certificate (HSC) examination.
- **National Scholarship** in Secondary School Certificate (SSC) examination.
- **Perfect Attendance Award** from Notre Dame College, Dhaka for 100 percent attendance in Higher secondary classes.

### REFERENCE

**Dr. Md. Ziaur Rahman Khan**

Professor

Dept. of EEE

Bangladesh University of Engineering & Technology, Dhaka, Bangladesh

Email : [zrkhan@eee.buet.ac.bd](mailto:zrkhan@eee.buet.ac.bd)

**Dr. Anamika Dubey**

Assistant Professor

Dept. of EECS

Washington State University,  
WA, USA

Email : [anamika.dubey@wsu.edu](mailto:anamika.dubey@wsu.edu)