

# Md. Abdur Rahman

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## EDUCATION

**Bachelor of Science (B.Sc.) in Electrical and Electronic Engineering**

International Islamic University Chittagong (IIUC).

CGPA: 3.856 On scale of 4.00 (MEXT scale 2.637)

Chittagong, Bangladesh

October,2017-March,2022

**Higher Secondary Certificate(HSC)in Science**

Bangladesh Madrasah Education Board

CGPA: 4.50 On scale of 5.00

Dhaka, Bangladesh

2014-2016

## RESEARCH ACTIVITY

1. S. H. Hasan, M. S. Shompa, **M. A. Rahman**, M. A. Rasel, M. R. H. Apu, & M. A. Rahman, "IoT Based Solar Power Monitoring & Data Logger System" *8th IEEE international Women in Engineering (WIE) Conference on Electrical and Computer*, 2022 (pp. ).IEEE.
2. **Rahman, M. A.**, Hasan, S. T., & Kader, M. A. (2022, February). "Computer Vision Based Industrial and Forest Fire Detection Using Support Vector Machine (SVM)." *In 2022 International Conference on Innovations in Science, Engineering and Technology (ICISSET)* (pp. 233-238). IEEE.
3. Chowdhury, R., Aowal, M. A., Mostafa, S. M. G., & **Rahman, M. A.** (2020). "Floating solar photovoltaic system: An overview and their feasibility at kaptai in rangamati." *In 2020 IEEE International Power and Renewable Energy Conference* (pp. 1-5). IEEE.
4. Islam, M. A., **Rahman, M. A.**, & Sakib, A. N. (2020, September). "A Waste Recycling System for a Better Living World." *In 2020 IEEE Student Conference on Research and Development (SCORED)* (pp. 171-176). IEEE.
5. **Rahman, M. A.**, Tahsin, S. M., Das, D., & Chowdhury, R. (2020, June). "Power factor Controlling and Monitoring wirelessly through computer." *In 2020 IEEE Region 10 Symposium (TENSYP)* (pp. 547-551). IEEE.
6. Shakil, M. D., **Rahman, M. A.**, Soliman, M. M., & Islam, M. A. (2020, September). "Automatic Isolated Speech Recognition System Using MFCC Analysis and Artificial Neural Network Classifier: Feasible For Diversity of Speech Applications." *In 2020 IEEE Student Conference on Research and Development (SCORED)* (pp. 300-305). IEEE.
7. **Rahman, M. A.**, Hasan, S. T., Computer Vision Based Industrial & Forest Fire Detection Using Support Vector Machine (SVM). Supervisor: Mohammed Abdul Kader, Asst. Prof., Dept. of EEE, IIUC [Thesis Work]
8. S. H. Hasan, **M. A. Rahman**, M. A. Rasel, M. R. H. Apu, & M. A. Rahman, "LPWAN Enable IoT Based Patient Health Monitoring and Emergency Alert System" *3rd International Conference on Electrical, Computer and Communication Engineering (ECCE 2023)*. IEEE. [ Under Review].

## OTHERS ACADEMIC RESEARCH & PROJECTS

1. **Md. Abdur Rahman**, Md. Khurshedul Islam, Md. Fazle Rabbi, (Oct, 2020), "A comparative study of HVAC & HVDC Transmission System: Design technique, Fault current analysis and proposal of South Asian interconnected HVDC grid system." (Course Study)
2. **Md. Abdur Rahman**, Md. Iqbal Hossain, Md. Rejaul Karim, (April, 2021), "Implementation of Three Phase AC Synchronous Motor Drive by Using Voltage Source Converter." (Course Project)
3. **Md. Abdur Rahman**, Sayed Tanimun Hasan, Moinul Hasan Sajib, Jobair Al Beruni (2021), "Humanoid Assistant Robot." (Research Project)

## WORK EXPERIENCES

**Assistant Engineer-Operation**

Lub-rref(Bangladesh) Ltd.

Chittagong, Bangladesh

September 2021 to Continuing

- Operation & Maintenance Such as Thermal Heater-6 Lac KCal-2 Nos, Gas Generator-675 KVA, Steam Boiler-1500 KG/HR, Air Compressor-510 MC/HR, All type of Electrical Device And Tools of Blending Plant.
- Supporting in breakdown maintenance and preventive maintenance works.
- All types of Operation & maintenance work of Transformer Oil Filtration Plant.

## Process and Automation Engineer

Library and Information Division, Int. I. University Chittagong

Chittagong-4318, Bangladesh.

January 2018 to March 2020

- All types of Operation and Support in Automation and Processing section.
- All kind of troubleshooting in Automation and Processing section.
- Data Entry in Koha Integrated System Software.

## HONOURS AND AWARDS

1. Award for ranked **1st position among 82** students in undergraduate level, at the B.Sc. in EEE, IIUC.
2. Special Scholarship for outstanding academic performance (GPA:4.00 out of 4.00) in the session of Autumn 2019, Spring 2020.
3. Award and scholarship for Academic Excellence: Conferred by International Islamic University Chittagong in 2019,2020,2021,2022.
4. Runner's Up – Idea Generation Competition, EEE FEST, Spring 2018, IIUC.
5. Runner's Up - Circuit Solution Competition, EEE Fest, Department of EEE, 2018, IIUC.
6. General Scholarship for excellent performance in Secondary School Certificate (S.S.C) exam.
7. Govt. Merit Award in 2008 (Class 5 - Primary School) and 100% scholarship for 3 years, from class 6 to 8.

## TEACHING EXPERIENCE

### Teaching Assistant, Dept. of Electrical & Electronic Engineering

International Islamic University Chittagong

Chittagong, Bangladesh

Spring 2021

- Taking electrical machine sessional, average 90 students per semester, covering electrical machine relevant topics.
- Developing quizzes, exams, and homework.
- Coordinating grading and lab

## LANGUAGE SKILLS

Mother Tongue	Bengali				
Other language	UNDERSTANDING		SPEAKING		WRITING
English	Listening	Reading	Spoken Interaction	Spoken Production	
	B2	B2	B2	B2	B2
	International English Language Testing System B2 (IELTS overall 6 (Expected)).				
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user				
Japanese	Beginner				

## DIGITAL COMPETENCE

Research Tools & Electronics and Embedded System Software	MATLAB, Python, OpenCV, LaTeX, BibTeX, EndNote, Zotero, Mendeley, PLC, AutoCAD, Proteus, Cadence, Microwind, VLSI Tools, PCB Design, Raspberry Pi, Arduino, PSpice etc. (Advanced)
Technical Software	MS Office, MS Excel, MS Powerpoint, MS Access, MS Visio, Photoshop, Illustrator, etc. (Advanced)
Programming languages	C, C++, Python, MATLAB, OCTAVE, Java, JavaScript, jQuery, HTML, CSS, Bootstrap, PHP, MySQL etc. (Advanced)
OS platforms	Mac OS (Intermediate), Windows Server, Windows 10, Linux, Ubuntu, Android etc (Advanced)

## PERSONAL SKILLS

### Organization Skills

- Assistant General Secretary (2021-2022), IEEE IIUC student branch.
- Assistant Finance Secretary (Oct. 2019 - May. 2020), EEE Club, International Islamic University Chittagong.
- Assistant Sports Secretary (Oct. 2018 - May. 2019), EEE Club, International Islamic University Chittagong.
- Public Relation Secretary (Apr. 2018 - Oct. 2018), EEE Club, International Islamic University Chittagong (IIUC).

- o Life Fellow (2017-Present), Blood Donation Group, International Islamic University Chittagong (IIUC).
- o Student Member Secretary (2019-2021), IEEE IIUC student branch.
- o Executive Member (2017-2021), EEE Club, International Islamic University Chittagong (IIUC).

#### **Managerial skills**

- o Organizer (Autumn 2018), EEE Premier League (An Intra Department Cricket Tournament), EEE Club, IIUC.
- o Co-Convenor (2019), Intra University Project Showcase Competition, EEE Fest, Conferred by EEE Club, International Islamic University Chittagong (IIUC).

**Communication skills:** I have developed strong communication and interpersonal skills through the participating different voluntary organization, club activity and teaching experiences.

## **PROFESSIONAL MEMBERSHIP**

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- o Graduate Student Member (2018-2022) (ID: 95649088), The Institute of Electrical and Electronics Engineers (IEEE).
- o Member (ID: 95649088), IEEE Signal Processing Society, 2021.
- o Member (ID: 95649088), IEEE Council on Superconductivity
- o IEEE Young Professionals (2019-2022)
- o Associate Member, The Institution of Engineers, Bangladesh (IEB).
- o Member (2020-2021), Power and Energy Society (PES), IEEE.

## **REFERENCES**

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1. **Dr. Md. Shamimul Haque Choudhury**  
Dean, Faculty of Science and Engineering,  
International Islamic University Chittagong (IIUC).  
Email: shamimul129@iiuc.ac.bd, Mobile: (+880) 1798023252
2. **Dr. Sikder Sunbeam Islam**  
Associate Professor & Chairman, Dept. of Electrical & Electronic Engineering,  
International Islamic University Chittagong (IIUC).  
Email: sikder\_islam@yahoo.co.uk, Mobile: (+880) 1711443473

I, Md. Abdur Rahman hereby declare that all the above-furnished information is true.

*Md. Abdur Rahman*

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Signature