Md Abdur Rahman

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Academic Qualifications

2022 (September)-Present	**Pursuing Master of Engineering in Biomedical Engineering (Japanese Government Scholarship (MEXT))** Saga University, Japan, Expected Graduation: **September 2024**, Result: **3.9** (Tentative) **Thesis Overview:** Analysis of Non-Destructive Testing (NDT), Acoustic signal processing, Acoustic Emission Tomography theoretically and experimentally
2012-2017	B. Sc. in Electrical & Electronic Engineering (EEE)_Graduated in 2017 *Chittagong University of Engineering and Technology (CUET)*, Chittagong, Bangladesh. **Thesis Overview:** Prospect and Impact of Grid-Connected Solar-PV in Bangladesh

Professional Experiences

2021 (August) – Present (On Study leave)	**Assistant Professor**, Department of Mechatronics and Industrial Engineering (MIE), *CUET*, Chittagong, Bangladesh. **Responsibilities:** Supervising students in their thesis, Questions evaluation and moderation, preparing and delivering class lectures. Member of Institutional Quality Assurance Cell (IQAC).
2018 (August)– 2021	**Lecturer**, Department of MIE, *CUET*, Chittagong, Bangladesh. **Responsibilities:** Digital and Analog circuit design, Control system, Microcontroller, Power Electronics Drives and Control, Signal processing class and practical. Supervised students for their projects on Home Automation, IoT, ML, DL and based on the taught courses.
2018 – 2018 (August)	**Lecturer,** Department of Electrical & Electronic Engineering, *Daffodil International University*, Dhaka, Bangladesh. **Responsibilities:** Supervising students in Microcontroller based projects, Automation, IoT.
2017- 2018 (May)	**Lecturer,** Department of Electrical &Electronic Engineering, *Feni University*, Feni, Bangladesh. **Responsibilities:** Supervising various projects based on Analog and Digital circuit design, Electrical Machines, supervising different programs and co-curricular activities in the university.

Scholarships, Awards, and International Seminars

- Japanese Government Scholarship (MEXT)_**(2022 – 2024)**
- Merit Award by CUET Ex-Student Association_**2015**
- CUET Merit Scholarship_**(2012-2016)**
- Joined an Intensive International Seminar at the National Chin-Yi University of Technology (NCUT), Taiwan (March 9-19, 2023)

Publications

- KHAN, Md Tawhidul Islam, and **Md Abdur RAHMAN**. "Investigating the Slowness Characteristics in Acoustic Emission Tomography." *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*. Vol. 268. No. 6, pp 2367-2371. Institute of Noise Control Engineering, 2023.
- KHAN, Md Tawhidul Islam, Luqman HAKIM, Nazmush SAKIB, **Md Abdur RAHMAN**. " Measurement of Acoustic Signals to Characterize Household Appliance Based on Sound Power and Directivity Analysis." *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*. Vol. 268. No. 6. pp. 2362-2366, Institute of Noise Control Engineering, 2023.
- Khan Md. Tawhidul Islam, **Md Abdur Rahman**, Md Arif Rashid, "Visualization of Locally Varying Wave Speed Distribution on an Aluminum Block Using Principle of AE Tomography", Proceedings in The Japan Society of Mechanical Engineers Kyushu Branch 76th Annual General Lecture Presentation, March 2023.
- Rahman, M. A., **Rahman, M. A**., Ahmed, M. I., & Hossain, M. I. (2023). Fabrication of Smart Eye Controlled Wheelchair for Disabled Person. In *Computer Vision and Image Analysis for Industry 4.0* (pp. 181-192). Chapman and Hall/CRC.
- Masud Ahmed, **Md Abdur Rahman**, Md. Imteaz Ahmed, "*Remotely Controllable Driverless Vehicle Equipped With Computer Vision*" (Published in International Conference on Big Data, IoT and Machine Learning (BIM 2021)
- Md. Mizanul Islam, **Md. Abdur Rahman**, Md. Imteaz Ahmed, "*Smart Room Monitoring and Controlling System Using Internet of Things (IoT)*" (Published in International Conference on Big Data, IoT and Machine Learning (BIM 2021)
- Asiful Haque Joarder, **Md. Abdur Rahman**, Md. Imteaz Ahmed, "*A Supportive System for Visually Handicapped Person Implementing Obstacle and Lane Detection*" (Published in International Conference on Big Data, IoT and Machine Learning (BIM 2021)
- **Rahman, M. A**., Rahman, A., Hridoy, M. W., & Arifin, M. S. "Power Factor Improvement of IEEE 14 Bus Network and Voltage Sag Mitigation of a Power System by Using DSTATCOM." 6th International Conference on Engineering Research, Innovation, and Education, SUST, Bangladesh, 26-28 February 2021.
- Sayidul Morsalin, **Abdur Rahman**, Abu Bakar Siddiqe, PrattaySaha, Reduanul Halim. "Password protected multiuser wireless electronic noticing system by GSM with robust algorithm." 2nd International Conference on Electrical Information and Communication Technology (EICT), Khulna, Bangladesh. 10-12 December 2015. pp. 249-253. 2015.

Skill Summary

Professional Membership

- Japan Society of Mechanical Engineers (JSME)

Leadership and management skills

- Supervising nine undergraduate students as a thesis supervisor.
- President of CUET Journalist Association.
- Press Secretary of Greater Noakhali Student Forum.

Data management skills

- Proficient in Microsoft word, Excel, power point

Software Skills

- MATLAB, C, Octave, Verilog, Assembly language
- Cadence, AEwin
- PLC, PSpice, Proteus

Language Proficiency

- Comprehensive Elementary Japanese I and I I **(N4 equivalent)**