NITER



Muaz Rahman

Electrical and Electronic Engineering

Bio

Muaz Rahman is a Lecturer in Department of Electrical and Electronic Engineering at the National Institute of Textile Engineering and Research.

Muaz Rahman completed his Bachelors program in Electrical and Electronic Engineering from Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh in 2014 and the Master of Engineering Science (M.Eng.Sc.) from the Curtin University, Australia in 2017. Currently, he is working as a Lecturer at Electrical and Electronic Engineering, National Institute of Textile Engineering and Research (NITER), Constituent Institute of the University of Dhaka, Savar, Dhaka, Bangladesh since January 2020 to the present. The main interests of his research are Smart Grid Technologies, Internet of Things (IoT), Machine Learning, AI, Hybrid Renewable Energy System, Energy Storage System, Energy Management Strategies, Blockchain, and Data Science.

Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
Master of Engineering Science (MEngSc)	Electrical Engineering (Emerging Power Systems)	Curtin University	Australia	2017
Bachelor of Science (Bsc)	Electrical and Electronic Engineering	Ahsanullah University of Science and Technology	Bangladesh	2014

Experience

Job Title	Organization	Location	From Date	To Date
Asst. Prof.	NITER	Nayarhat, Savar	14/03/2023	Till now
Lecturer	National Institute of Textile Engineering and Research	Nayarhat, Savar	01/01/2020	13/03/2023
Assessor	BTMA-SEIP	Dhaka, Bangladesh	11/06/2022	Till Date
Research Assistant	Curtin University	Perth, Western Australia	01/06/2018	30/08/2018
Casual Academic	Curtin University	Perth, Western Australia	01/07/2018	10/12/2019
Technical Intern	AICA Engineering	Perth, Western Australia	11/02/2018	12/06/2018

Research Activities

Research Interest

Subject	Description	Research Interest (Goal/ Target Indicator)
Electrical Engineering	Smart Grid technologies, Internet of Things, Machine Learning, Energy Storage System, Energy Management Strategies, Renewable Energy Technologies	

Project/Research Supervision

Level of Study	Title	Supervisor	Co-Supervisor(s)	Name of Student(s)	Area of Research	Current Completion
B.Sc. in EEE (Level 4 Term 2)	Feasibility and Techno-Economic Analysis of a renewable energy-based grid-connected system	Muaz Rahman	N/A	1. Md. Mahbub Sikder 2. Emtius Hasnat 3. Md. Abu Abbas Bappy	Power System Engineering	N/A

Membership

Collaboration & Membership Name	Type	Membership Year	Expire Year
The Institution of Engineers, Bangladesh	Associate Member	2014	Present

Publications

Journal Article

SL. No-	Article Name	Link
1.	Home Energy Management for Community Microgrids Using Optimal Power Sharing Algorithm	https://www.mdpi.com/1996-1073/14/4/1060
2.	Study on IoT for SARS-CoV-2 with healthcare: present and future perspective	http://www.aimspress.com/article/doi/10.3934/mbe.2021475
3.	Federated learning-based AI approaches in smart healthcare: concepts, taxonomies, challenges and open issues	https://link.springer.com/article/10.1007/s10586-022-03658-4

Conference Proceedings

SL. No-	Paper Name	Link
1.	An Improved Energy and Cost Minimization Scheme for Home Energy Management (HEM) in the Smart Grid Framework	https://ieeexplore.ieee.org/abstract/document/9276111
2.	Feasibility and Techno-Economic Analysis of an Off-grid Hybrid Energy System: A Char Area in Bangladesh	https://ieeexplore.ieee.org/abstract/document/9642703

Contact

Academic
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Institute – Faculty
Name of the Department: Electrical and Electronic Engineering
Position: Asst. Professor