Curriculum Vitae

Dr. SK. SHEZAN AREFIN
Assistant Professor
Department of Electrical Engineering
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EDUCATIONAL/ ACADEMIC QUALIFICATION

Doctor of Philosophy (PhD) (2021)	**Thesis Title:** Optimization of an Islanded Hybrid Microgrid Considering Alternative Dispatch Strategies. School of Engineering, RMIT University, Melbourne, Australia. **Field of Research: Renewable Energy, Power System, Control System, Power Electronics** **Research Focus:** Design and Implementation of Hybrid Renewable Energy System; Optimization; Dispatch Strategy; Power and Energy system stability and reliability. **Duration:** 4 Years **Supervisors:** Dr. Kazi Nazmul Hasan and Dr. Manoj Datta.
Masters of Engineering Science (M.Eng.Sc) (2016)	**Thesis Title:** Performance Analysis of Solar-Wind-Diesel-Battery Hybrid Standalone Renewable Energy Systems Suitable For Malaysian Climate. Faculty of Engineering, University of Malaya, Kuala Lumpur, Malaysia. **Field of Research:** Energy **Research Focus:** Renewable Energy, Energy Economics, Energy Management System. **Duration:** 2 years. **Supervisors:** Dr. Sabariah Binti Julaihi and Dr. Chong Wen Tong
Bachelor of Engineering (2013)	**Thesis Title:** Power Communication Channel of an Inquisition Robot. Shenyang University of Chemical Technology, Shenyang, Liaoning, China. **Major Concentration:** Electrical Engineering and Automation **Duration:** 4 Years. **Research Focus:** Electrical and Automation Control Applications. **CGPA: 3.95** in a scale of **4.0** **Supervisor:** Prof. Dr. Xiao Yong

Curriculum Vitae

EMPLOYMENT HISTORY/WORK EXPERIENCES (Academia, Research and Industry)

November 2024-Present

Assistan Professor, Dept. of Electrical Engineering, Northern Border University, Arar, Kingdom of Saudi Arabia.

Subject taught: Advanced Energy Conversion, Automatic Control System, Energy Efficiency, Research Methods.

Key Responsibilities: Teaching undergraduate and master's students, supervising undergrad and master's students with their project work, marking exam scripts, preparing course materials.

Feb 2021-Present

Senior Lecturer, Dept. Electrical, Electronic Engineering and Industrial Automation, EIT, Melbourne, Australia.

Subject taught: Renewable Electrical Energy Systems, Power system control and operation, Solar and Wind Energy System control techniques Power system and supply chain management, Energy system optimization.

Key Responsibilities: Teaching undergraduate and master's students, supervising undergrad and master's students with their project work, marking exam scripts, preparing course materials.

May 2022-Present

Adjunct Senior Lecturer, Discipline of Engineering and Energy, Murdoch University, Perth, WA, Australia.

Key Responsibilities:

- Design and analysis on power system load flow, contingency analysis, steady & dynamic simulation analysis using DIgSILENT PF, PSS/E and ETAP
- Supervised projects on modeling of hybrid energy system integrating microgrids using MATLAB/Simulink
- Analysis on load flow and fault analysis of 3-phase power system using MATLAB/Simulink
- Analysis on calculation on Per-Unit system & bus admittance matrix of a power system, short circuit analysis of balanced & unbalanced faults & symmetrical components.
- Design and Analysis on steady state/transient stability & swing equation

October 2022-March 2023

Chief Power Systems and Renewable Energy Consultant (Oct 2022 to Present), Doosan GridTech, Melbourne, Australia.

Key Responsibilities:

- Design and analysis on power system load flow, GPS studies, contingency analysis, steady & dynamic simulation analysis using DIgSILENT PF, PSS/E and ETAP
- Supervised projects on modeling of hybrid energy system integrating microgrids using MATLAB/Simulink
- Analysis on load flow and fault analysis of 3-phase power system using MATLAB/Simulink
- Analysis on calculation on Per-Unit system & bus admittance matrix of a power system, short circuit analysis of balanced & unbalanced faults & symmetrical components
- Design and Analysis on steady state/transient stability & swing equation

Feb 2022-August 2022

Assistant Professor, Dept. Electrical and Electronic Engineering, Green University of Bangladesh, Dhaka, Bangladesh.

Subject taught: Renewable Electrical Energy Systems, Power system control and operation, Solar and Wind Energy System control techniques Power system Protection, Power Electronics, Control System, Energy system optimization.
Key Responsibilities: Teaching undergraduate and master's students, supervising undergrad and master's students with their project work, marking exam scripts, preparing course materials.

July 2022-October 2022

Power Systems Consultant, Sustainable Energy Lead**,** Middleton Group, Melbourne CBD, Australia.

Key Responsibilities:

- Design and analysis on power system load flow, GPS studies, contingency analysis, steady & dynamic simulation analysis using DIgSILENT PF, PSS/E and ETAP
- Supervised projects on modeling of hybrid energy system integrating microgrids using MATLAB/Simulink
- Analysis on load flow and fault analysis of 3-phase power system using MATLAB/Simulink
- Analysis on calculation on Per-Unit system & bus admittance matrix of a power system, short circuit analysis of balanced & unbalanced faults & symmetrical components
- Design and Analysis on steady state/transient stability & swing equation

February 2017-December 2020

PhD Research Scholar, School of Engineering, RMIT University, Melbourne, VIC, Australia.
Major Project Tittle: Optimization of Islanded Hybrid Microgrid Considering Alternative Dispatch Strategies, School of Engineering , RMIT University, Melbourne, Australia Lead by Dr. Kazi Nazmul Hasan **(**Lecturer and a prominent researcher, **RMIT University Power and Energy System research group**) and Dr. Manoj Datta (Senior Lecturer and a prominent researcher, **RMIT University Power and Energy System research group**)

Focused research work:

- Assisting in developing novel ideas for the protection of rural **Australian energy production and distribution networks** against bush fires special affected island like Kangaroo Island.
- Working towards the application of these techniques in finding faults of the grid **during high penetration of renewable energy**.
- **Microgrid energy management** for the rural and decentralized areas of Australia.

August 2019-December 2020

Casual Tutor and Lab Demonstrator, Dept. of Electrical and Electronic Engineering, School of Engineering, RMIT University, Melbourne, VIC, Australia.
Subject taught: Renewable Electrical Energy Systems, Power system control and operation, Solar and Wind Energy System control techniques Power system and supply chain management, Energy system optimization.
Key Responsibilities: Teaching undergraduate and master's students, supervising undergrad and master's students with their project work, marking exam scripts, preparing course materials.

Curriculum Vitae

June 2016- December 2016 (Quit to Join RMIT University)

PhD Research Scholar, School of Mechanical and Electrical Engineering, University of Southern Queensland, Toowoomba, QLD, Australia.

Major Project Tittle: Design and Implementation of a Control Strategy and Optimization model for a Solar-Wind-Generator Hybrid Renewable Energy System, School of Mechanical and Electrical Engineering, University of Southern Queensland, Toowoomba, QLD, Australia. Lead by Dr. Narottam Das (Lecturer and a prominent researcher, **USQ Power and Energy System research group**).

Focused research work:

- Assisting in developing novel ideas for the design and implementation of proper control and energy management system for rural **Australian energy production and distribution networks** against bush fires special affected areas like Queensland.
- Working towards the application of these techniques in finding faults of the grid **during high penetration of renewable energy**.
- **Microgrid energy management** for the rural and decentralized areas of Australia.

January 2016- June 2016

Lecturer, Dept. of Electrical and Electronic Engineering, Uttara University, Dhaka, Bangladesh.

Subject taught: Renewable Electrical Energy Systems, Power system control and operation, Solar and Wind Energy System control techniques Motor Drive, Control System, Microprocessor, Programming, PLC, Electrical Circuit, Industrial Electronics and etc.

Key Responsibilities: Teaching undergraduate and master's students, supervising undergrad and master's students with their project work, marking exam scripts, preparing course materials.

December 2013-June 2016

Research Assistant, University of Malaya, Kuala Lumpur, Malaysia.

Major Project Title 1: Performance Investigation of Solar-Wind Hybrid System for Malaysian Climate. Faculty of Engineering, **University of Malaya, Kuala Lumpur, Malaysia,** High Impact Research (HIR) project with Professor Dr. Saidur Rahman, Principal Investigator.

Major Project Title 2: Hybrid Solar Energy Research Suitable for Rural Electrification. Faculty of Engineering, **University of Malaya, Kuala Lumpur, Malaysia,** High Impact Research (HIR) project with Professor Dr. Hew Wooi Ping, Principal Investigator.

Focused research work:

- Assisting in developing an efficient hybrid solar-wind-diesel-battery renewable energy system **applicable for Malaysian climate and rural and decentralized areas.**
- Working towards the application of **stored energy for the electricity grid** using meteorological conditions and possible power system equipment and power electronics devices.

March. 2013- Nov. 2013

Assistant Electrical Engineer, POWERBREEZE ELECTROMECH SERVICES LIMITED, Dhaka, Bangladesh.

Major Project Title: Energy Production and Distribution System by Gas turbine generators. (100 MW Project). Supervised by Engr. Md. Arman Hossain.

Focused research work:

- Assisting in developing an efficient Programmable Logic Controller (PLC) Unit to maintain the total control unit of the 100 MW power plants.
- Working towards the application of stored energy for the electricity grid using PLC and ABB control unit and large scale transformer.

TECHNICAL SKILL

- Electrical Energy distribution Network Design (AWR/MWO) (Advanced)
- Renewable Energy System Design (Solar System and Wind Turbine); (Advanced)
- MATLAB/Coding, MATLAB/Simulink; Python (Advanced)
- PSS/E and PSCAD; Power system and distribution network design (Advanced)
- DIgSILENT PowerFactory: Power system and distribution network design (Advanced)
- Power system modeling (Advanced)
- HOMER: Hybrid Renewable Energy System Design, Modeling and Optimization. (Advanced)
- PIC Micro controller &PLC ladder; (Advanced)

RESEARCH INTEREST

- Hybrid Renewable Energy System Design, Modeling and Optimization.
- PV and Wind based Energy storage System, conversion and management.
- Power System stability and reliability analysis.
- Microgrid Operation, Optimization and Control.
- Renewable energy technologies for sustainable energy.
- Energy storage systems for sustainable transportation and live able cities.

PROFESSIONAL APPOINTMENTS & SERVICES/ VOLUNTEER EXPERIENCE

- Reviewer of ***Journal of Applied Energy (Elsevier)***.
- Reviewer of ***Journal of Energy (Elsevier).***
- Reviewer of ***Journal of Renewable Energy (Elsevier).***
- Reviewer of ***Journal of Renewable and Sustainable Energy Reviews (Elsevier).***
- Reviewer of ***Journal of Energy Conversion and Management (Elsevier).***
- Reviewer of ***Journal of Solar Energy (Elsevier).***
- Reviewer of ***Journal of Sustainable Energy Technologies and Assessment (Elsevier).***
- Reviewer of ***Journal of Cleaner Production (Elsevier).***
- Reviewer of ***International Journal of Hydrogen Energy (Elsevier).***
- Reviewer of ***Journal of Energy Storage (Elsevier).***
- Reviewer of ***Journal of Energy Reports (Elsevier).***
- Reviewer of ***Journal of Renewable Energy Focus (Elsevier).***
- Reviewer of ***Journal of Heliyon (Elsevier).***
- Reviewer of ***Journal of Environment, Development and Sustainability (Springer).***
- Reviewer of ***Journal of Energy, Sustainability and Society (Springer).***
- Reviewer of ***Journal of International Journal of Energy and Environmental Engineering (Springer).***
- Reviewer of ***Journal of International Journal of Green Energy (Taylor and Francis).***
- Reviewer of ***Journal of International Journal of Sustainable Engineering (Taylor and Francis).***
- Reviewer of ***Journal Environmental Progress & Sustainable Energy (Wiley and Sons).***
- Reviewer of ***International Transactions on Electrical Energy Systems (Wiley and Sons).***
- Reviewer of ***Physical Chemistry Chemical Physics (Royal Society of Chemistry).***
- Reviewer of ***IEEE ACCESS (IEEE).***
- Reviewer of ***Energies (MDPI).***
- Reviewer of ***Sustainability (MDPI).***

- Reviewer of ***Electronics (MDPI).***
- Reviewer of ***Batteries (MDPI).***
- Guest Editor of ***Sustainability (MDPI).***

REFEREED PUBLICATIONS *(JOURNAL ARTICLES)*

1. Ishraque, M. F., A. Rahman, **S. A. Shezan**, G. Shafiullah, A. H. Alenezi, M. D. Hossen and N. E. N. Bintu (2024). "Design Optimization of a Grid-Tied Hybrid System for a Department at a University with a Dispatch Strategy-Based Assessment." **Sustainability** 16(7): 2642.
2. Ishraque, M. F., **S. A. Shezan**, G. Shafiullah, S. Muyeen, T. Alharbi, A. H. Alenezi and M. D. Hossen (2024). "Operational assessment of solar-wind-biomass-hydro-electrolyser hybrid microgrid for load variations using model predictive deterministic algorithm and droop controllers." **e-Prime-Advances in Electrical Engineering, Electronics and Energy** 9: 100745.
3. Paul, L. C., M. T. R. Jim, T. Rani, S. Muyeen, M. Karaaslan, **S. A. Shezan**, M. F. Ishraque and V. Akdogan (2024). "A low-profile antenna with parasitic elements and a DGS-based partial ground plane for 5G/WMAN applications." **Discover Applied Sciences** 6(1): 22.
4. Punitha, K., A. Rahman, A. Radhamani, R. S. Nuvvula, **S. A. Shezan**, S. R. Ahammed, P. P. Kumar and M. F. Ishraque (2024). "An Optimization Algorithm for Embedded Raspberry Pi Pico Controllers for Solar Tree Systems." **Sustainability** 16(9): 3788.
5. Shaik, M., D. N. Gaonkar, R. S. Nuvvula, S. Muyeen, **S. A. Shezan** and G. Shafiullah (2024). "Nataf-KernelDensity-Spline-based point estimate method for handling wind power correlation in probabilistic load flow." **Expert Systems with Applications** 245: 123059.
6. Tabassum, F., M. R. Islam, M. I. Azim, M. A. Rahman, M. O. Faruque, **S. A. Shezan** and M. Hossain (2024). "Secured energy data transaction for prosumers under diverse cyberattack scenarios." **Sustainable Energy, Grids and Networks** 40: 101555.
7. K. E. Fahim, L. C. De Silva, F. Hussain, **S. A. Shezan**, and H. Yassin, "An Evaluation of ASEAN Renewable Energy Path to Carbon Neutrality," **Sustainability**, vol. 15, no. 8, p. 6961, 2023.
8. M. F. Ishraque, A. Rahman, **S. A. Shezan**, and S. Muyeen, "Grid connected microgrid optimization and control for a coastal Island in the Indian Ocean," **Sustainability**, vol. 14, no. 24, p. 16697, 2022.
9. M. F. Ishraque, A. Rahman, **S. A. Shezan**, and G. Shafiullah, "Operation and assessment of a microgrid for maldives: Islanded and grid-tied mode," **Sustainability**, vol. 14, no. 23, p. 15504, 2022.
10. J. J. R. Melo, M. F. Ishraque, G. Shafiullah, and **S. A. Shezan**, "Centralized monitoring of a cost efficient PLC-SCADA based islanded microgrid considering dispatch techniques," **The Journal of Engineering**, vol. 2023, no. 8, p. e12293, 2023.
11. S. M. Rizvi, A. Abu-Siada, N. Das, M. F. Ishraque, and **S. A. Shezan**, "Active Power Sharing Method for Microgrids with Multiple Dispatchable Generation Units using Modified FFC and IFC Mode Controller," **IEEE Access**, 2023.
12. **S. A. Shezan** et al., "Selection of the best dispatch strategy considering techno-economic and system stability analysis with optimal sizing," **Energy strategy reviews**, vol. 43, p. 100923, 2022.
13. **S. A. Shezan** et al., "Optimization and control of solar-wind islanded hybrid microgrid by using heuristic and deterministic optimization algorithms and fuzzy logic controller," **Energy Reports**, vol. 10, pp. 3272-3288, 2023.
14. **S. A. Shezan** et al., "Evaluation of different optimization techniques and control strategies of hybrid microgrid: a review," **Energies**, vol. 16, no. 4, p. 1792, 2023.
15. M. D. Hossen, M. F. Islam, M. F. Ishraque, **S. A. Shezan**, and S. Arifuzzaman, "Design and Implementation of a Hybrid Solar-Wind-Biomass Renewable Energy System considering Meteorological Conditions with the Power System Performances," **International Journal of Photoenergy**, vol. 2022, **2022**.
16. M. F. Ishraque and **S. A. Shezan** et al., "Optimal sizing and assessment of a renewable rich standalone hybrid microgrid considering conventional dispatch methodologies," **Sustainability**,

vol. 13, no. 22, p. 12734, **2021**.
17. P. P. Kumar and **S. A. Shezan** et al., "Optimal Operation of an Integrated Hybrid Renewable Energy System with Demand-Side Management in a Rural Context," **Energies**, vol. 15, no. 14, p. 5176, **2022**.
18. R. Muppidi, R. S. Nuvvula, S. Muyeen, **S. A. Shezan**, and M. F. Ishraque, "Optimization of a Fuel Cost and Enrichment of Line Loadability for a Transmission System by Using Rapid Voltage Stability Index and Grey Wolf Algorithm Technique," **Sustainability**, vol. 14, no. 7, p. 4347, **2022**.
19. M. M. Rana and **S. A. Shezan** et al., "A Comparative Analysis of Peak Load Shaving Strategies for Isolated Microgrid Using Actual Data," **Energies**, vol. 15, no. 1, p. 330, **2022**.
20. M. M. Rana and **S. A. Shezan** et al., "Efficient Energy Distribution for Smart Household Applications," **Energies**, vol. 15, no. 6, p. 2100, **2022**.
21. S. K. Sarker and **S. A. Shezan** et al., "Ancillary Voltage Control Design for Adaptive Tracking Performance of Microgrid Coupled With Industrial Loads," **IEEE Access**, vol. 9, pp. 143690-143706, **2021**.
22. **S. A. Shezan**, K. N. Hasan, A. Rahman, M. Datta, and U. Datta, "Selection of appropriate dispatch strategies for effective planning and operation of a microgrid," **Energies**, vol. 14, no. 21, p. 7217, **2021**.
23. **S. A. Shezan** et al., "Selection of the best dispatch strategy considering techno-economic and system stability analysis with optimal sizing," **Energy Strategy Reviews**, vol. 43, p. 100923, **2022**.
24. **S. A. Shezan** et al., "Effective dispatch strategies assortment according to the effect of the operation for an islanded hybrid microgrid," **Energy Conversion and Management: X**, vol. 14, p. 100192, **2022**.
25. **S. A. Shezan** et al., "Assortment of dispatch strategies with the optimization of an islanded hybrid microgrid," **MIST International Journal of Science and Technology**, vol. 10, no. 1, pp. 15-24, **2022**.
26. **Shezan, S. K. A.**, Das, N., & Mahmudul, H. (2017). Techno-economic analysis of a smart-grid hybrid renewable energy system for Brisbane of Australia. **Energy Procedia**, 110, 340-345.
27. M. F. Ishraque, **S. A. Shezan**, M. Ali, and M. Rashid, "Optimization of load dispatch strategies for an islanded microgrid connected with renewable energy sources," **Applied Energy**, vol. 292, p. 116879, **2021**.
28. M. F. Ishraque, **S. A. Shezan** et al., "Techno-Economic and Power System Optimization of a Renewable Rich Islanded Microgrid Considering Different Dispatch Strategies," in **IEEE Access**, vol. 9, pp. 77325-77340, **2021**.
29. **S. A. Shezan**, "Design and demonstration of an islanded hybrid microgrid for an enormous motel with the appropriate solicitation of superfluous energy by using iHOGA and matlab," **International Journal of Energy Research**, vol. 45, no. 2020, pp. 5567– 5585, **2020**.
30. **S. Shezan**, "Feasibility analysis of an Islanded Hybrid Wind-Diesel-Battery Microgrid with Voltage and Power Response for Offshore Islands," **Journal of Cleaner Production**, vol. 288, p. 125568, **2020**.
31. M. F. Ishraque, S. A. Shezan, J. N. Nur, and M. S. Islam, "Optimal Sizing and Assessment of an Islanded Photovoltaic ‐ Battery ‐ Diesel Generator Microgrid Applicable to a Remote School of Bangladesh," **Engineering Reports**, p. e12281, **2020**.
32. Rashid, S., Rana, **S., Shezan**, S., AB Karim, S., & Anower, S. (2016). Optimized design of a hybrid PV-wind-diesel energy system for sustainable development at coastal areas in Bangladesh. **Environmental Progress & Sustainable Energy**, 36(1), 297-304.
33. Hasan Mahmudul, M. M. R., **SK. A. Shezan**, H.S.C. Metselaar, S. Mekhilef, Rana Sohel, SBA Karim, WNI Badiuzaman, HM. (2016). Temperature Regulation of Photovoltaic Module Using Phase Change Material: A Numerical Analysis and Experimental Investigation. **International Journal of Photoenergy**, 2016, 1-8.
34. **Shezan, S**., Al-Mamoon, A., & Ping, H. (2018). Performance investigation of an advanced hybrid renewable energy system in 7ndonesia. **Environmental Progress & Sustainable Energy**, 37(4), 1424-1432.
35. **Shezan, S**., & Ping, H. (2017). Techno-Economic and Feasibility Analysis of a Hybrid PV-Wind-

Biomass-Diesel Energy System for Sustainable Development at Offshore Areas in Bangladesh. **Current Alternative Energy**, 1(1), 20-32.

36. **Shezan, S. A**. (2019). Optimization and assessment of an off-grid photovoltaic–diesel–battery hybrid sustainable energy system for remote residential applications. **Environmental Progress & Sustainable Energy**, 38(6).
37. **Shezan, S. A**., & Das, N. (2017). Optimized Hybrid Wind-Diesel Energy System with Feasibility Analysis. **Technology and Economics of Smart Grids and Sustainable Energy**, 2(1), 9.
38. **Shezan, S. A**., Julai, S., Kibria, M., Ullah, K., Saidur, R., Chong, W., & Akikur, R. (2016). Performance analysis of an off-grid wind-PV (photovoltaic)-diesel-battery hybrid energy system feasible for remote areas. **Journal of Cleaner Production**, 125(2016), 121-132.
39. **Shezan, S. A**., Saidur, R., Ullah, K. R., Hossain, A., Chong, W. T., & Julai, S. (2015). Feasibility analysis of a hybrid off-grid wind-DG-battery energy system for the eco-tourism remote areas. **Clean Technologies and Environmental Policy**, 17, 2417-2430.

REFEREED PUBLICATIONS *(CONFERENCE ARTICLES)*

1. **Shezan, S. A.,** Hasan, K. N., & Datta, M. (2019). Optimal Sizing of an Islanded Hybrid Microgrid Considering Alternative Dispatch Strategies. Paper presented at the 2019 ***29th Australasian Universities Power Engineering Conference (AUPEC), IEEE***.
2. M. F. Ishraque, M. M. Ali, **S. Arefin**, M. R. Islam, H. Masrur, and M. M. Rahman, "Dispatch Strategy Based Optimized Design of an Offgrid Hybrid Microgrid Using Renewable Sources," in 2021 ***31st Australasian Universities Power Engineering Conference (AUPEC), 2021: IEEE***, pp. 1-6.
3. M. F. Ishraque, M. S. Hussain, M. S. Rana, M. H. K. Roni, and **S. A. Shezan**, "Design and Assessment of a Standalone Hybrid Mode Microgrid for the Rohingya Refugees Using Load Following Dispatch Strategy," in 2021 ***6th International Conference on Development in Renewable Energy Technology (ICDRET), 2021: IEEE***, pp. 01-06.
4. Ishraque, M. F., Rashid, M. M., & Shezan, S. A. (2019). IoT Based Pilot Wireless Differential Relay. Paper presented at the 2019 ***5th International Conference on Advances in Electrical Engineering (ICAEE), IEEE***.
5. Saeed, S., Shezan, S., Arbab, M., & Rana, S. (2017). Battery monitoring system for the smart grid applications. Paper presented at the 2017 ***Australasian Universities Power Engineering Conference (AUPEC), IEEE***.
6. Shezan, S., & Lai, C. Y. (2017). Optimization of hybrid wind-diesel-battery energy system for remote areas of Malaysia. Paper presented at the 2017 ***Australasian Universities Power Engineering Conference (AUPEC), IEEE***.
7. Shezan, S., Saidur, R., Hossain, A., Chong, W., & Kibria, M. (2015). Performance analysis of solar-wind-diesel-battery hybrid energy system for KLIA Sepang station of Malaysia. Paper presented at the ***IOP Conference Series: Materials Science and Engineering***.
8. Shezan, S. A., Hossain, A., & Ishrak, A. (2015). A complete off-grid PV-Diesel-Battery Hybrid Energy System with feasibility analysis, system modeling and Optimization. Paper presented at the ***International Conference on Mechanical, Industrial and Materials Engineering 2015 (ICMIME2015)***.
9. Shezan, S. A., & Ishraque, M. F. (2019). Assessment of a Micro-grid Hybrid Wind-Diesel-Battery Alternative Energy System Applicable for Offshore Islands. Paper presented at the 2019 ***5th International Conference on Advances in Electrical Engineering (ICAEE), IEEE***.
10. Shezan, S. A., Salahuddin, A., Farzana, M., & Hossain, A. (2016). Techno-economic analysis of a hybrid PV-wind-diesel energy system for sustainable development at coastal areas in Bangladesh. Paper presented at the 2016 ***4th International Conference on the Development in the in Renewable Energy Technology (ICDRET), IEEE***.

PROFESSIONAL MEMBERSHIP

- Accredited cricket Umpires (Cricket Australia)
- Certified First Aid and CPR provider.

HONORS AND AWARDS

- RMIT University International Research Scholarship (RITFS), Australia, 2017
- University of Southern Queensland International Research Scholarship (USQ PRS), 2016
- University of Malaya Tuition fees and IGRAS scholarship, Malaysia, 2014
- University Technical Scholarship (SYUCT), China, 2012

SHORT COURSE/SEMINAR/CONFERENCE/TRAINING

- 2-days training and workshop on Renewable Energy Technology and Distribution organized by RMIT University, Melbourne, Australia.
- Two Tutoring Skill Training, School of Engineering, RMIT University, Melbourne, Australia.
- Attending various webinars on Renewable Energy system and Microgrid managements.
- Short training on DIgSILENT PowerFactory and PSSE arranged by School of Engineering, RMIT University, Melbourne, Australia.
- Research writing and Thesis writing skill training arranged by school of engineering, RMIT University, Melbourne, Australia.
- Attending various international seminars and conferences around the world.

REFEREE

Will be provided on request.