

H.M. MARUF RAHMAN SHUVO

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SUMMARY

Experienced Lecturer in Electrical and Electronics Engineering with 6+ years of expertise in developing outcome-based education programs, mentoring students, and aligning academic curricula with industry demands. Proven track record of enhancing student engagement and fostering practical skills development through innovative teaching methods.

EXPERIENCE

Prime University Feb, 2020- Present	Lecturer - Implemented OBE at the departmental level as Member Secretary of the OBE Implementation Committee. - Coordinated the Project and Thesis Distribution Committee, overseeing project allocation and supervision. - Developed and taught Power, Electronics, and Communication courses with OBE-focused outcomes. - Supervised 12+ research projects, encouraging innovation and practical applications. Several projects were recognized for their practical application at university exhibitions - Advised students on academic progress and career paths, aligning with industry needs.
Grameen Phone Dec, 2018	Industrial Training Gained insights into telecom operations, network monitoring, customer experience strategies, and corporate culture during a week of industrial training at Grameen phone.
Summit Communications Dec, 2018	Acquired comprehensive insights into telecommunications operations, network infrastructure, and corporate practices during a one-week industrial training at Summit Communication.
Poly Cables Dec,2018	Acquired valuable knowledge on cable manufacturing processes, product quality assurance, and industry standards during a one-week industrial training at Poly Cables.
Bangladesh Betar Dec, 2018	Gained valuable experience in broadcast operations, signal transmission, and audio engineering during a one-week industrial training at Bangladesh Betar.

LANGUAGE


English


Bengali

EDUCATION

Master of Science (Eng.) 2023-Present	Military Institute of Science and Technology (MIST) Department: Electrical, Electronic and Communication Engineering Major: Communication Engineering Status: Ongoing
Bachelor of Science (Eng.) 2016-2019	Military Institute of Science and Technology (MIST) Department: Electrical, Electronic and Communication Engineering Major: Communication Engineering CGPA: 3.68
Higher Secondary Certificate 2015	Savar Cantonment Public School and College Group: Science Board: Dhaka GPA: 5.00
Secondary School Certificate 2013	Savar Cantonment Public School and College Group: Science Board: Dhaka GPA: 5.00

SKILL

Technical Skills	• Circuit Design & Analysis using Cadence (Virtuoso), MATLAB, PSpice, Proteus or Multisim • Embedded System Design using Microcontrollers like Arduino or PIC • Computer-Aided Design using AUTOCAD and ORCAD • Programming Languages: C, C++ & Python • Machine Learning & AI Applications • Antenna Design using CST
Soft Skills	• Curriculum Development Student • Mentorship & Supervision Research and Publication • Presentation and Communication skills • Online and Hybrid Teaching • Techniques Project Management

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

MIST 2017,2018	• Short Course on “Electrical Service Design” • Short Course on “ AutoCAD”
BAETE, IEB February, 2024	• Hands-on “Orientation on Outcomes-Based Education”
British Council November, 2024	• Researcher Connect Online

AFFILIATIONS

- Institute of Electrical and Electronics Engineer (IEEE), Member No: 99825652
- The Institution of Engineers, Bangladesh (IEB), Member No: M-46357

PUBLICATIONS

International Journal:

- M.N. Hasan, H.M.M.R. Shuvo, M. Ahmed, "Best Modulation Technique and Most Efficient Carrier Number for Getting Maximum SNR and Minimum BER for OFDM Generated Signal Over Rayleigh Distribution", International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume-3, Issue-09, PP. 324-331, 2021.
- M.K. Mim, S.K. Biswas, H.M.M.R. Shuvo, M.N. Islam, "Efficiency Enhancement of Lead-Free CsSnGeI₃-Based Perovskite Solar Cells Using ZnSe as an Electron Transport Material and Spiro-MeOTAD as the Hole Transport Medium", International Journal of Imminent Science and Technology, Volume-2, Issue-1, 2024.
- Siddiqui, Tanvi, Biswas, Sunirmal Kumar, Rahman, Md. Zahidur, Shuvo, Hossain Mohammad Maruf Rahman, Ahmed, Md. Mostak, Karmaker, Palash Chandra, A Comprehensive Analysis of a High-Efficiency Lead-Free Copper–Indium–Gallium–Selenide–Based Thin Film Solar Cell Using SCAPS 1D Software, International Journal of Photoenergy, 2026, 8815113, 11 pages, 2026. <https://doi.org/10.1155/ijph/8815113>.

International Conference:

- H. M. M. R. Shuvo, M. N. Islam, S. K. Biswas and M. S. Islam, "Improved Breast Cancer Detection in Ultrasound Images Using Masked Image Integration and Transfer Learning," 2025 4th International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), Dhaka, Bangladesh, 2025, pp. 327-332, doi: 10.1109/ICREST63960.2025.10914389.
- M. S. Islam, S. A. Liza, H. M. M. Rahman Shuvo, M. M. Hossain, M. A. Hossain and M. S. Islam, "An Interpretable and Effective Machine Learning Method for Stroke Prediction: A Comparison Study Emphasizing the Explainable Extra Trees Classifier's Superiority," 2026 IEEE 2nd International Conference on Quantum Photonics, Artificial Intelligence & Networking (QPAIN), Chittagong, Bangladesh, 2026, pp. 1-6, doi: 10.1109/QPAIN69676.2026.11546091.

REFERENCES

Air Commodore (Retd.) Md Hossam-E-Haider, PhD

Institution: MIST

Designation: Professor

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Lt. Col. Md. Aminul Islam, PhD

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