

H.M. MARUF RAHMAN SHUVO

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SUMMARY

Experienced Lecturer in Electrical and Electronics Engineering with 5+ 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 10+ 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 Department: Electrical, Electronic and Communication Engineering Major: Communication Engineering Status: Ongoing
Bachelor of Science (Eng.) 2016-2019	Military Institute of Science and Technology 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Short Course on “Electrical Service Design”• Short Course on “ AutoCAD”
BAETE, IEB February, 2024	<ul style="list-style-type: none">• Hands-on “Orientation on Outcomes-Based Education”
British Council November, 2024	<ul style="list-style-type: none">• Researcher Connect Online

RELEVANT PROJECTS

MIST

- Smart Wheelchair with Bio-Medical Sensors and Voice Controlled Navigation
- Cell Phone and Wi-Fi Frequency Signal Detectors
- Two Digit Addition Using Basic Logic Gates and Three Seven Segment Displays
- Automatic Border Protection System using Microcontroller
- Design and Optimization of a Y-Shaped Power Divider using CST
- Design and Optimization of a Dual-Band Microstrip Patch Antenna Using CST
- Design of Low Power Tunable Voltage Control Oscillator (VCO)

THESIS

MIST 2019

- **Undergraduate Thesis:** Performance analysis and simulation of an OFDM wireless communication link over Nakagami-M fading channel

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
- M.S.Islam, I.A. Imran, H.M.M.R. Shuvo, M.N. Islam, M.M. Hossain, S.M.T. Islam "Accurate Pneumothorax Detection and Classification in Chest X-rays with Hybrid Stacking Network Model", Journal of Imaging Science and Technology (Under review)
- T. Islam, Z. Rahman, S.K. Biswas, H.M.M.R. Shuvo, M.M. Ahmed, P.C. Karmaker "Design and Numerical Analysis of a High efficiency Eco friendly CIGS based thin-film solar cell with a potential WS₂ buffer layer using SCAPS 1D software", Journal of Physics and Chemistry of Solids (Under review)

- H.M.M.R Shuvo, M.N. Islam, S.K. Biswas, M.M. Ahmed, P.C. Karmaker “Design of a Low-Power Tunable Three-Stage Ring VCO Using PMOS Body Biasing and MOS Capacitance Modulation Technique”, Prime University Journal (Under review)

- 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.

AWARDS AND HONOURS

- Bangladesh Government 2010**
- Government Board Scholarship in Junior School Certificate (JSC) Exam
- Bangladesh Government 2013**
- Government Board Scholarship in Secondary School Certificate (SSC) Exam
- MIST 2017**
- Military Institute of Science and Technology (MIST) Merit Scholarship
- MIST 2018**
- Best Non-CSE/ ICT Team in Intra MIST Programming Contest

EXTRA CURRICULAR ACTIVITIES

- MIST**
- Senior Executive Director of “ MIST Robotics Club”
 - Senior Executive Director of “MIST Cultural and Literature Club”
 - Volunteer of “International Conference on Electrical Engineering and Information & Communication Technology”
 - Volunteer of “Robulation-2017 & 2018”
 - Organizer of “Aunkur-2019”
 - Presenter of “Radio MIST”
- PROYASH Institute of Special Education July-December, 2021**
- Volunteer for children with Autism and Neuro Developmental Disability

REFERENCES

Brig. Gen (Retd.) AKM Nazrul Islam, PhD
Institution: University of Asia Pacific (UAP)
Designation: Registrar
Address: 74/A, Green Road, Farmgate, Dhaka 1205
Contact Number: +8801715303672

Lt. Col. Md. Aminul Islam, PhD
Institution: Military Institute of Science and Technology
Designation: Instructor “Class-A”
Address: Mirpur Cantonment, Dhaka-1216
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