

Adjunct Lecturer

Electrical and Computer Engineering
Uttara University
Dhaka, Bangladesh

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EDUCATION

- ✓ B.Sc. in **Electrical and Electronic Engineering (EEE)**, **American International University-Bangladesh (AIUB)**, Dhaka, Bangladesh, Graduated in October 2021, CGPA: **3.46/4.00 (85%)**.
- ✓ Higher Secondary Certificate (H.S.C.), **Mirpur Cantonment Public School and College**, Dhaka, Bangladesh, Graduated in 2016, GPA: **5.00/5.00 (94%)**.
- ✓ Secondary Secondary Certificate (H.S.C.), **Mirpur Bangla High School and College**, Dhaka, Bangladesh, Graduated in 2014, GPA: **5.00/5.00 (90%)**.

STANDARDIZED TEST SCORE

- ✓ **GRE - 330** (Quantitative Analysis - 164, Verbal Reasoning - 166, AWA - 4.0)
- ✓ **IELTS - 7.00** (Listening - 7.5, Reading - 6.5, Writing - 7.0, Speaking - 7.0)

WORK EXPERIENCE

- + **SCHOLARX ACADEMY** (October, 2024 to Now)
Manager of Education
- + **UTTARA UNIVERSITY** (June, 2025 to Now)
Adjunct Lecturer, Electrical and Electronics Engineering
- + **IELTS @ IDP Bangladesh** (Contractual - 1 day per week) (Sep, 2024 - Now)
Test Day Supervisor
- + **RADIANT DATA SYSTEMS LIMITED** (Full Time- 40 hours/week) (May, 2023 to August, 2025)
Credentialing Data Analyst, Healthcare Data and Clinician's Employment
- + **UNIVERSITY OF SCHOLARS** (Remote- Part Time) (Nov, 2023 to April, 2025)
Research and Teaching Assistant, Department of EEE and CSE
- + **DOREEN POWER GENERATION AND SYSTEMS LIMITED** (40 hours/week) (Jan, 2022 to May, 2023)
Assistant Engineer (Trainee), Electrical Maintenance Department (55 MW HFO Power Plant)

WORK EXPERIENCE (PROJECT BASED)

- + **ADVANCED MACHINE INTELLIGENCE RESEARCH LAB (AMIRL)** (July, 2025 to Now)
Research Assistant, Artificial Intelligence, Image Processing & Data Science
- + **ELITELAB.AI** (New York, USA) (Remote - Part Time) (Jan, 2025 to Now)
Senior Research Assistant, Artificial Intelligence, Image Processing & Data Science

REVIEWER OF JOURNAL

- ✓ **Frontiers in Digital Health (Q1)**
Scopus Indexed, Link: <https://tinyurl.com/mryx7a49>
- ✓ **Engineering Technology and Applied Science Research (ETASR) (Q2)**
Scopus Indexed, Link: <https://tinyurl.com/btt9t9wa>
- ✓ **IEEE PES ISGT 2025 - Innovative Smart Grid Technologies, Latin America**
IEEE Flagship Conference, Link: www.ieee-isgt-latam.org, Sponsored by IEEE, IEEE PES, IEEE Panama Section
- ✓ **Journal of Engineering Research and Science (JENRS)**
Journal Link: <https://www.jenrs.com>
- ✓ **Academia Engineering**
Journal Link: <https://www.academia.edu/journals/academia-engineering>

TEACHING EXPERIENCE (Undergrad Courses)

(Nov, 2023 - Now)

- ✓ **Course Title**
 - Microprocessor and Interfacing (Theory + Lab) [2 Semester]
 - Digital Logic Design and Digital Logic Design (Theory + Lab) [03 Semesters]
 - VLSI Circuits Design and VLSI Design (Theory + Lab) [02 Semesters]
 - Power Electronics (Theory + Lab) [01 Semester]
 - Research Methodology (Theory) [03 Semesters]
 - Capstone Project (Theory + Lab) [03 Semesters]

✓ **Course Title**

- Information Communication Technology [5 Years]
- Higher Mathematics [5 Years]
- Physics [3 Years]
- Chemistry [1.5 Years]
- Biology [2 Years]
- English [3 Years]

PUBLICATIONS

(*) Total Citations: **230+**, Paper Published: **18**, Paper in Acceptance: **02**

JOURNALS

J01 Forhad, Shamim et al. "Reasoning under Ambiguity: Uncertainty-Aware Multilingual Emotion Classification under Partial Supervision." arXiv preprint arXiv:2602.05471 (2026).

CONFERENCES

- C17 S. Forhad* et al.**, "Automated Weed Species Classification in Rice Cultivation Using Deep Learning," in Proc. 2025 IEEE 4th International Conference on Electrical, Computer, and Communication Engineering (ECCE), Chittagong, Bangladesh, Feb. 2025.
- C16 S. Forhad* et al.**, "Eggplant Disease Diagnosis Using a Robust Ensemble of Transfer Learning Architectures," in Proc. 2025 IEEE 4th International Conference on Electrical, Computer, and Communication Engineering (ECCE), Chittagong, Bangladesh, Feb. 2025.
- C15 S. Forhad* et al.**, "Rare and Common Types of Retinal Disease Recognition Using Ensemble Deep Learning," in Proc. 2025 IEEE 4th International Conference on Electrical, Computer, and Communication Engineering (ECCE), Chittagong, Bangladesh, Feb. 2025.
- C14 S. Forhad* et al.**, "Hybrid Vision Transformer Model for Accurate Prostate Cancer Classification in MRI Images," in Proc. 2025 IEEE 4th International Conference on Electrical, Computer, and Communication Engineering (ECCE), Chittagong, Bangladesh, Feb. 2025.
- C13 S. Forhad* et al.**, "Transformer-Based Ensemble Model for Binary and Multiclass Oral Cancer Segmentation," in Proc. 2025 IEEE 4th International Conference on Electrical, Computer, and Communication Engineering (ECCE), Chittagong, Bangladesh, Feb. 2025.
- C12 S. Forhad* et al.**, "Analyzing TF-IDF and BERT Approach for Bangla Text Classification Using Transformer-Based Embedding for Newspaper Sentiment Classification," in Proc. 6th Int. Conf. Computational Intelligence in Pattern Recognition (CIPR), Odisha, India, March, 2024.
- C11 S. Forhad* et al.**, "Comparative Analysis of AlexNet, GoogLeNet, VGG19, ResNet50, and ResNet101 for Improved Plant Disease Detection Through Convolutional Neural Networks," 2024 2nd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings), Mt Pleasant, MI, USA, 2024, pp. 1-6, doi: 10.1109/AIBThings63359.2024.10863407.
- C10 S. Forhad* et al.**, "Feasibility Assessment of an Off-grid Hybrid Energy System for a Char Area in Bangladesh," 2024 IEEE International Conference on Power, Electrical, Electronics and Industrial Applications (PEEIACON), Rajshahi, Bangladesh, 2024, pp. 1-5, doi: 10.1109/PEEIACON63629.2024.10800194.
- C09 S. Forhad* et al.**, "Mobile Applications in Electronic-Healthcare: A Case Study for Bangladesh," in Proc. 2nd Int. Conf. Data Science and Network Engineering (ICDSNE), Agartala, India, July 2024. (Accepted)
- C08 S. Forhad* et al.**, "Design and Analysis of a 6G Terahertz Aeronautical Antenna Based on Graphene," 2024 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE), Gazipur, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICAEEE62219.2024.10561643.
- C07 S. Forhad* et al.**, "Modeling and Analysis of Small-Scale Solar PV and Li-ion Battery-based Smartgrid System," 2024 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE), Gazipur, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICAEEE62219.2024.10561824.
- C06 S. Forhad* et al.**, "DeepSegRecycle: Deep Learning and ImageProcessing for Automated Waste Segregation and Recycling," 2024 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE), Gazipur, Bangladesh, 2024, pp. 1-6, doi: 10.1109/ICAEEE62219.2024.10561709.
- C05 S. Forhad* et al.**, "X band On-body Antenna Design for Lung Cancer Detection using Single-Walled Carbon Nanotubes," 2023 8th International Conference on Robotics and Automation Engineering (ICRAE), Singapore, Singapore, 2023, pp. 182-186, doi: 10.1109/ICRAE59816.2023.10458599.
- C04 S. Forhad* et al.**, "Influence of a Dual Axis IoT- Based Off-Grid Solar Tracking System and Wheatstone Bridge on Efficient Energy Harvesting and Management", J. Eng. Res. Rep., vol. 26, no. 3, pp. 125–136, Mar. 2024. doi: 10.9734/jerr/2024/v26i31099

- C03** S. Forhad* et al., "Simulated Design of an Autonomous Multi-terrain Modular Agri-bot. In: Udgata, S.K., Sethi, S., Gao, XZ. (eds) Intelligent Systems. ICMIB 2023. Lecture Notes in Networks and Systems, vol 728. Springer, Singapore. https://doi.org/10.1007/978-981-99-3932-9_30.
- C02** S. Forhad* et al., "An Intelligent Versatile Robot with Weather Monitoring System for Precision ," 2023 6th International Conference on Information Systems and Computer Networks (ISCON), Mathura, India, 2023, pp. 1-7, doi: 10.1109/ISCON57294.2023.10112101.
- C01** S. Forhad* et al., "An Autonomous Agricultural Robot for Plant Disease Detection. In: Hossain, M.S., Majumder, S.P., Siddique, N., Hossain, M.S. (eds) The Fourth Industrial Revolution and Beyond. Lecture Notes in Electrical Engineering, vol 980. Springer, Singapore. https://doi.org/10.1007/978-981-19-8032-9_50

RESEARCH INTEREST

- ✓ Technology in Education, Artificial Intelligence, Digital Health, Machine Learning, Image Processing, Data Science, Robotics, and Renewable Energy.

RELEVANT SOFTWARE SKILLS

- ✓ Moodle, Canvas, Google Classroom, Zoom, Turnitin, Microsoft Teams, MS Word, MS Excel, MS PowerPoint, Digital whiteboard, Miro, Python, TensorFlow, PyTorch, Keras, Proteus, MATLAB/Simulink, C++, Linux, Verilog/VHDL, Bash, TCL, LaTeX, Mendeley, Zotero, Arduino IDE, Raspberry Pi, SPSS, Power BI, Tableau,

RESEARCH GRANT

- ✓ **Research Grant - University of Scholars**
Received \$3000 research funding from University of Scholars for four research projects
- ✓ **Research Grant - American International University - Bangladesh**
Received \$2000 research funding for two research projects.

AWARDS AND ACHIEVEMENTS

- ✓ **Best Teacher Award, Fall 2025, Uttara University, Department of EEE**
I have received the Best Teacher award for being the most proactive in teaching and for overseeing the highest number of completed capstone projects among teachers.
- ✓ **Deans Award for Best Capstone Project and Poster Presentation**
Project Title: Agrinobot: A renewable energy-based agricultural robot for plant disease detection using image processing.
- ✓ **Research Grants and Funding Awards**
Received \$5000 in funding for research projects and received funding for research paper publication from both American International University Bangladesh and the University of Scholars.
- ✓ **Best Researcher Award**
Received best researcher award from Advanced Machine Intelligence Research Lab (AMIRL) for research contribution on a Q1 Journal.
- ✓ **Supervising Award**
I have received supervising award from University of Scholars for supervising students research project and publish IEEE conference paper as a research outcome.

EXTRA-CURRICULAR ACTIVITIES

- + Member of **AIUB Community of Engineering Students (ACES)**
- + Member of **Engineering Student Association of Bangladesh (ESAB)**
- + Student Member of **IEEE AIUB Student Branch**
- + Local Vice President of **Junior Chamber International (JCI) Dhaka Diplomats, Bangladesh**
- + Campus Ambassador for **SONGKOLPO Foundation**
- + Associate Member - **United Nations Youth and Student Association of Bangladesh**
- + Volunteer Organizer at **Bangladesh Innovation Summit**
- + Volunteer at **OBHIZATRIK Foundation**

REFERENCES

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