

ACADEMIC QUALIFICATION

B.Sc. (Biomedical Engineering)

(March 2017- April-2022)
Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh.
CGPA: **3.57** (out of 4.00)

H.S.C (Higher Secondary Certificate)

Rajuk Uttara Model College, Dhaka-1230.
GPA- **5.00** (out of 5.00)
Year- 2016

S.S.C (Secondary School Certificate)

Uttara High School & College, Dhaka-1230.
GPA- **5.00** (out of 5.00)
Year- 2014

RESEARCH PUBLICATION

“Automatic Classification of COVID-19 from Chest X-Ray Image using Convolutional Neural Network” *2021 5th International Conference on Electrical Information and Communication Technology (EICT)/ Publisher-IEEE. Mar 16, 2022 [1st Author]*

“Predictive Analysis for Risk of Stroke Using Machine Learning Techniques” *6th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)/ Publisher - IEEE · May 10, 2022 [3rd Author]*

“Low-Cost Smart COVID-19 Patient Monitoring and Support System” *6th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)/ Publisher - IEEE · May 10, 2022 [1st Author]*

SUBMITTED MANUSCRIPTS

“In Silico Performance Investigation of Nanoparticle Assisted Photo Thermal Ablation” *Submitted in “Journal of Biological System” [Impact Factor: 1.82] [1st Author]*

“Skin Melanoma Cancer Detection Using Convolutional Neural Network” *Submitted in “1st International Conference on Information and Communication Technology for Development (ICICTD 2022)” [3rd Author]*

“Epileptic Seizure Detection from EEG Signal Using ANN-LSTM model” *Submitted in “International Conference on Machine Intelligence and Emerging Technologies 2022 (MIET 2022)” [5th Author]*

AWARDS/HONORS RECEIVED

- Dean’s List Award
- Technical Scholarship KUET

PROJECTS

- Line Following Robot (March 2017 - Apr 2018)
- Smart Colorimetric Analysis for Telemedicine (Apr 2021-May2021)
- Video Conferencing Application for Telemedicine (Jun 2021- August 2021)
- Evolving a website Using the concept PACS, HIS, RIS (Sep 2021 - Nov 2021)
- EEG Acquisition and Emotion Detection Utilizing Machine Learning Approaches (Feb 2022- Present)
- Epilepsy Detection Utilizing CWT and convolutional neural network (Nov 2021 – Present)
- Micro strip patch antenna Design using CST studio suite (Mar 2022 – Present)

RESEARCH INTERESTS

- Signal Processing
- Brain Computer Interface
- Bio-Photonics
- Machine Learning
- Deep learning
- Simulation & Modeling

TECHNICAL SKILLS AND COMPETENCIES

- Language: Python, C
- Data Analysis: MATLAB, Scikit-learn, Keras
- Simulation: COMSOL, CST Studio Suite, NI Multisim, Simulink.
- Data visualization: Origin Pro, Matplotlib, Excel
- Web programming: HTML, CSS, WordPress
- Software: BioPac, Arduino
- Research Tools: EEGLAB, Mendeley Desktop

EXTRACURRICULAR ACTIVITIES

- **President** (Oct 2020 - Apr 2022), “Rajukan’s of KUET”, association of the students of Rajuk Uttara model college, Dhaka
- **Organizing Secretary** (Oct 2020 - Apr 2022), “Advanced Bio-Engineering Club (ABC) of KUET.” Most anticipated club for Bio-engineering in KUET. Had the honor to lead and manage teams, projects and conduct events.
- 2nd Runners Up – Fun Rush 2017, KUET
- Arranged workshop on “Insights of ECG”, ABC KUET
- Arranged workshop on “Mathematics for Engineering Research”, ABC KUET
- Arranged workshop on “ABC of Research”, ABC KUET

- Arranged seminar on “Science and Engineering Research for Humanity”, Biomedical Engineering Association, KUET

RESEARCH GROUP

- **Photonics Research Group, KUET**
<https://sites.google.com/eee.kuet.ac.bd/photonicsgroupkuet-org/home>
- **Bio Researcher Group, KUET**

REFERENCES

- Md. Jahirul Islam, PhD
Professor,
Department of Electrical and Electronic Engineering,
Khulna University of Engineering & Technology (KUET)
Khulna – 9203, Bangladesh.
Email: jahirul@eee.kuet.ac.bd
- Dr. MD. Rejvi Kaysir,
Associate Professor,
Department of Electrical and Electronic Engineering,
Khulna University of Engineering & Technology (KUET)
Khulna – 9203, Bangladesh.
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