

Skip to content * DSpace * Library * Faculty Members * Degree Verification * Important Contact * Apply Online

- Profile Login

Search for: * Home * Admission * UG Program Research * Degree Requirement * EEE (Course Sequence) * Curriculum * Waiver/Scholarship * Admission * Student Activities * Research Research * Cadence at UIU * CER * Dept Publications * ESRG * Research Areas * Sponsored Projects * Undergraduate Projects * Faculty Members * News & Event Research * News * Events * Notices * Facilities Research * Lab Facilities * VTA * PETA * Resources * ICDRET24 * About Research * Welcome Message * Mission & Vision * Why EEE at UIU * Strength of EEE, UIU * Contact

Mr. Md. Zubair Alam Emon

Lecturer, Dept. of EEE

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- Research Interests
- Education
- Hobbies/Leisure time activities
- Publication
- Certification
- Courses
- Supervisions
- Miscellaneous
- Publication

Research Interests

- Solid-state devices
- Analog and VLSI circuit designing
- Power Electronic circuit designing and simulating

Tools Used: 1. Cadence â€” Virtuoso, Innovus, Nclaunch. 2. COMSOL Multiphysics 3. PSpice 4. MultiSim 5. Proteus 6. Lumerical 7. MATLAB 8. TCAD 9. AutoCAD 10. LOGOSoft 11. Silos 12. DSCH2 13. HSpice 14. PSIM 15. CODEBLOCKS

Education

- Pursuing Masters in EEE
- **BSc** in EEE with 3.91/4.00, **United International University**. â€” UG Thesis topic : â€œ6T Fast Adder using CNTFETâ€ under supervision of Dr. Md. Iqbal Bahar Chowdhury.
- **HSc** at Dhaka board from **BDR** College with 5.00/5.00.
- **SSc** at Dhaka board from **JLSC** with 5.00/5.00.

Hobbies/Leisure time activities

- Traveling,
- Watchlist: English TV series, movies etc.
- Reading novels/books.
- Gardening

Publication

1. â€œSwitching Power of CNFET Based 6-Transistor 1-Bit Fast Adder Implemented Using Cadenceâ€ , 5th ICRAIR 2020.
2. M. Z. A. Emon and M. I. B. Chowdhury, â€œLow Threshold Voltage MOSFET â€” A Potential Candidate for Biomedical IC Design,â€ 2024 *International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS)* , Dhaka, Bangladesh, 2024, pp. 1-6, doi:

10.1109/iCACCESS61735.2024.10499508.

3. Emon, M.Z.A.; Salim, K.M.; Chowdhury, M.I.B. Design and Analysis of a High-Gain, Low-Noise, and Low-Power Analog Front End for Electrocardiogram Acquisition in 45 nm Technology Using $gm/I D$ Method. *Electronics* **2024**, *13*, 2190. <https://doi.org/10.3390/electronics13112190>

Certification

1. "PERL Programming" VTA
2. "Introduction to Python: Master Python Basics in Only 2 Hours" BitDegree
3. "Success Rituals : The Ultimate Path to Success" Udemy
4. "Basics of Microcontrollers using Arduino" Udemy
5. Phase-I on "Advances in Power Electronics to Renewables and E-Mobility Applications" Anurag University, India.

Courses

Courses taught: 1. Electrical Circuits I 2. Electrical Circuits II 3. Electronics I 4. Electronics II 5. Digital Electronics 6. Signals and Linear System 7. Power Electronics 8. VLSI

Laboratory Courses Conducted: 1. Electronics Laboratory 2. Electrical Circuits Laboratory 3. Simulation Laboratory 4. Digital Electronics Laboratory 5. Power Electronics Laboratory 6. VLSI Laboratory 7. Control System Laboratory 8. Electrical Wiring and Drafting Laboratory 9. Structured Programming Laboratory 10. Communication Laboratory 11. Microprocessor and Interfacing Laboratory

Supervisions

1. Impact of Various Parameter changes in a MOSFET. (COMSOL)
2. SNM Calculation of a 6T SRAM. (Cadence Virtuoso)
3. Smart Home Automation and Security System. (IoT)
4. Power Generation using Piezo Electric Sensor via footstep. (HW)

Miscellaneous

Facebook link: <https://www.facebook.com/emondedeadd> **Judged** at EEE day, UG Thesis defense, EEE Dept Project Show, TechQuest. **Hosted** : Trimester Orientation Program of EEE Dept, "Prospects of VLSI in Bangladesh: Past, Present and Future" seminar. **Additional duties** : Coordinator of VTA, ex-Moderator of UIU Photography Club, Managed Departmental social media page, etc. **Workshop Conducted on** "1. Circuit Design and PCB design using Proteus. 2. Layout Design Using Cadence. * Coding Language : C, Assembly, HDL. * Package: MS Office * OS: Windows, Linux. * Editors: Lightroom, Several Video Editors.

Publication

Journal Papers

2024## Design and Analysis of a high-gain, low-noise, and low-power analog front end for electrocardiogram acquisition in 45 nm technology using gm/id method Publication: Electronics Author List: Md. Zubair Alam Emon 2020## Switching Power of CNFET Based 6-Transistor 1-Bit Fast Adder Implemented Using Cadence, 5th ICRAIR 2020 Publication: Advances in Mathematics: Scientific Journal Author List: Md Zubair Alam Emon

Conference Papers

2024## Low Threshold Voltage MOSFET - A Potential Candidate for Biomedical IC Design Conference: 2024 International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS) Author List: Md. Zubair Alam Emon

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About UIU

- [Why UIU](#)
- [Vision Mission Goals](#)
- [General Information](#)
- [UIU Campus](#)
- [Guiding Principles](#)
- [Ranking & Accreditation](#)
- [Convocation](#)
- [Gallery](#)
- [Media](#)
- [Career](#)
- [Contact](#)

Departments

- [Dept. of CSE](#)
- [B.Sc in Data Science](#)
- [Dept. of EEE](#)
- [Dept. of Civil Engineering](#)
- [Dept. of Pharmacy](#)
- [Dept. of English](#)
- [Dept. of EDS](#)
- [Dept. of MSJ](#)
- [SoBE \(BBA, AIS, MBA, EMBA\)](#)
- [Dept. of Economics](#)
- [Dept. of BGE](#)

Admission

- [Admission](#)
- [Tuition Fees & Waiver](#)
- [Admission Requirements](#)
- [Admission Test Result](#)
- [Admission Procedure](#)
- [Admission Dates](#)
- [International Studentsâ€™ Admission](#)
- [Global Opportunities](#)
- [International Collaboration](#)
- [FAQ](#)

Important Links

- [Time Schedule of Shuttle Services](#)
- [Student Transportation Service](#)
- [Payment Procedure](#)
- [Student e-Resources](#)
- [Important Contact](#)

Quick Links

- [UCAM](#)
- [eLMS](#)
- [Parent Portal](#)
- [Online Classroom Booking](#)
- [Degree Verification](#)
- [Necessary Forms](#)
- [Notice](#)
- [News](#)
- [Event](#)
- [EEE Old Site](#)

