Al Amin

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Education

B.Sc. in EEE (Major: Electronics Minor: Computer) from United International University, Dhaka, Bangladesh
January 2023, CGPA 3.52 out of 4

HSC in Science from Qadirabad Cantonment Sapper College, Natore, Bangladesh
August 2016, GPA 5.00 out of 5.00

SSC in Science from Fulbari Model High School, Natore, Bangladesh
May 2014, GPA 5.00 out of 5.00

Technical Skills

Languages
- C
- Assembly
- VHDL
- Verilog
- Python
- Tcl

Software/Packages
- Proteus,
- Autocad,
- Matlab,
- Multisim,
- CodeVisionAV
- Tcad,
- Pspice,
- Multisim
- MS Office

Operating System
- WindowsXP,7,8,10,11
- Linux

Cadence Tools
- Genus
- Virtuoso
- InnovLus
- NCaunch

Bachelor Final Year Research (January 2022 – December 2022)

Thesis Project Title: Hybrid Disinfection Robot (HDR): A prototype

Supervisor: A.K.M. MUZAHIDUL ISLAM, PHD

IELTS (International English Language Testing System)

- Test Type- Academic
- Score- 6.5
- Date-29/07/2023

- Listening-8
- Reading-6
- Writing-6
- Speaking-6

Projects

- **Design a 32-bit Carry Save Adder** (with 4 stage pipeline and synthesized the design through RTL compiler using "Cadence" tool)
- **Modelling of InAs Tunnel FET** (simulation design using "Tcad")
- **Operational Transconductance Amplifier** (Simulation design using "Cadence" tool)
- **Design of PD controller** (simulation design using "MATLAB R2014a")
- **Solar Mini Grid Design** (Theoretical design using "AutoCAD 2010",SLD diagram, layouts)
- **Inverter** (simulation design in "Proteus 8 Professional", " PSpice 8.0" and physical implementation including voltage stabilizer, DOD protection)
- **Electrical Wiring Design (**10stories building wiring (SDB, MDB, Substation, lightning arrester)- BNBC code , using "AutoCAD 2007")
- **Digital Locker System** (simulation design in "Proteus 8 Professional" and "CodeVisionAVR", physical implementation with "ATmega32" chip)
- **FM modulation and demodulation** (simulation design in "Proteus 8 Professional")
- **Password protected boot** (using C language in "code::Block")

Activities & Participations (Event & Competition)

- **Tech Quest'18**- Electrical & Electronic Club, United International University, Dhaka
- **ROBOLUTION'19**- Robotics club, Military Institute of Science and Technology, Dhaka
- **INNOBOTICS'20**- UIU Robotics, United International University, Dhaka
- **IdeaStorm'21** - UIU Robotics, United International University, Dhaka
- **CSE Project Show'21**- Dept. of CSE, United International University, Dhaka
- **The Excelist'22**- UIU Finance Forum, United International University, Dhaka
- **VLSI DESIGN COMPETITION'22-** Dept. of EEE, IEEE EDS BUET, IEEE ED/SSCS, Bangladesh University of Engineering and Technology, Dhaka

Leadership & Volunteering Experiences

- **Assistant Logistics Head (2018-2020) - UIU Robotics Club, UIU, Dhaka**
- **Organizing Secretary (2021- 2022) – UIU Robotics Club, UIU, Dhaka**
- **General Secretary, (Co-Founder) (2020- Present) – Jubo Ahobhan Foundation** (A Non-Profitable Humanitarian Organization)**, Natore, Bangladesh**

References

- **A.K.M. MUZAHIDUL ISLAM, PHD, Professor**, United International University
  muzahid@cse.uiu.ac.bd, +8801754165915
- **SALAHUDDIN AHMED**, **Assistant Professor**, United International University
  sahmed@eee.uiu.ac.bd , +8801732580412