Academic CV

Samsil Arefin Mozumder

Date of Birth: 11th September 1996
Nationality: Bangladesh
Present Address: 306/A, Yeakub Nagar, Feringhee Bazar,
Kotowali, Chattogram, Bangladesh.
Mobile No.: +8801674056506
Email: samsilarefin313@gmail.com
Research Gate: www.researchgate.net/profile/Samsil-Mozumder
LinkedIn: linkedin.com/in/samsil-arefin-mozumder-20b20a14b/
Profile Link: samsilarefin313.github.io/profile/

Academic Qualification (From the Top Level)

2017-2020	Bachelor of Science in Electrical & Electronic Engineering, School of Science, Engineering and Technology, East Delta University, Chattogram, Bangladesh. Graduated in December 2020 (CGPA 3.26 out of 4.00) **86%** Marks.
2013-2017	Diploma in Engineering in Electronics Technology Chattogram Polytechnic Institute, Chattogram, Bangladesh. Bangladesh Technical Education Board Dhaka, Bangladesh. (GPA 3.12 out of 4.00) **62%** Marks.
2013	Secondary School Certificate (S.S.C) Board of Intermediate and Secondary Education Chattogram, Bangladesh. (GPA 4.94 out of 5.00) **78%** Marks.

Job Experience

Designation: Deputy Field Controller
Department: Engineering
Organization: OPSEED CO., (BD) LTD
Duration: Feb-2020 to Mar-2021
Projects:

- Automatic Ionized Air Blower
- Reverse Harness Detector
- Stack Light Interfacing with Software Writing Machine
- Heat Shrink Tube Cutter Machine Modification.
- OK, NG Indicator Lamp Modification in Sound Check Tester
- Bend Product Check Tester

Industrial Attachment

At Shah Amanat International Airport Chattogram under the department of Communication and Engineering (July 2017 – October 2017)

Publication

- Samsil Arefin Mozumder and A. S. M. Sharifuzzaman. Sagar, **" Smart IoT-Biofloc Water Management System Using Decision Regression Tree,"** in *International Conference on 4th Industrial Revolution and beyond (IC₄IR)*, Dhaka, Bangladesh, 2021.

- Samsil Arefin Mozumder and A. S. M. Sharifuzzaman. Sagar, **" IRHA: An Intelligent RSSI based Home automation System,"** in *2nd International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)*, Tamil Nadu, India, 2022.

- **"(Extended Version of IRHA) with Heartrate, Movement detection, and Real-time Remote Monitoring "** (Ongoing for Journal Paper)

Honors and Awards

- **Dean List – East Delta University - Summer 2020**

I was selected for the School of Science, Engineering, and Technology Dean's list for maintaining a 3.5 Grade Point Average or above, while taking at least 12 credits during the summer of 2020.

- **Dean List – East Delta University - Fall 2020**

I was selected for the School of Science, Engineering, and Technology Dean's list for maintaining a 3.5 Grade Point Average or above, while taking at least 12 credits during the fall of 2020.

Key skills & Competences

- Embedded ML, Reinforcement Learning, Internet of Things (IoT), Robotics.
- Able to plan projects and organize tasks effectively.
- Ability to resolve problems independently.
- Flexible with working hours.
- C, C++, Python, MATLAB, etc.

Projects:

Analog Projects:

- Implementation of NO, NC only using BJT
- Relay Switching, Water level Indicator, FM Transmitter, Dark Switch
- Timer Circuit, Wave Generator, Auto Water Pump, Clap Circuit
- FM Transmitter, AM Receiver, Relay Switching (Using LM 386, ULN2003)
- Motor Driver Circuit (Using L293D, L298N, TIP 120, TIP 122, IRFZ44)
- Various Sensor Interfacing Circuit (LDR, IR Sensor, MQ Sensors and etc.)

Digital & Programmed Projects:

- Face Mask Detection Based Automatic Gate
- Rubik's Cube Solver Robot
- Face Recognition and Temperature Detection Based Automatic Gate
- Mini CNC plotter

- Voice Control Robot (With 5 Commands)
- Level Sensing Device
- Digital Height Measuring Device
- IoT Based Home Automation
- IoT Weather Station
- Automatic Water Bottle Filling Machine
- Campus Automation
- Electronic Voting Machine
- Interactive Traffic Management System & Realtime Monitoring (Ongoing)
- Smart Dustbin with Auto Cap Opening, Visual & Verbal Greeting, Garbage Level Monitoring, and Indication Through GSM (Ongoing)

Communication skills and competence:

- Native language: Bengali

- Other languages: English- Fluent

Hobbies

When I am free from my routine work, I always keep myself busy with doing other things. I like indulging myself in traveling or visiting places during my leisure or free time. I like to take challenges. I am very much interested in different cultures. I visited the hilly areas of Bangladesh to learn the lifestyle and culture of different ethnic groups. Besides this I also like to spend my free time reading academic writings, playing cricket.