

RAIAN SHAHREAR



CAREER GOALS

I am interested to work in a true and professional manner with utmost integrity and honesty in a well-reputed and dynamic organization which will give me the opportunity to enhance my professional and personal growth

MAIN INTERESTS

- Information Technology (IT)
- Biomedical Instruments
- Automation
- Image and Video Processing
- Industrial Robotic
- Renewable Energy & Power Station
- AutoCAD Based Designing

PERSONAL INFORMATION

- 04/10/1994
- Bangladeshi
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- House#87, Paltan Tower,
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WORK EXPERIENCE

Service Internee/Trainee

PHILIPS Healthcare

Oct 1, 2021 - Dec 31, 2021 (3 Months)

- To work with Ultrasound Service & Application team.
- To install, service and maintenance various type of Ultrasound machine like ClearVue, Affiniti, Epiq, Portable CX and InnoSight series.
- To work with PCMS team for servicing and installing Patient monitor, Holter, Defibrillator and ECG machine.
- To collaborate with CT scan team.

Sales and Service Engineer

Anifco Healthcare

Apr 1, 2021 - Sep 3, 2021 (Full Time)

- To collaborate with tender as well as sales work inside and outside the office.
- To install or service medical equipment and Gas pipe line as well as perform a service visit for regular check up.
- To design Medical Gas Pipe Line, Nurse Call and Pneumatic Tube System for a hospital by using AutoCAD 2D.
- To make price offer, equipment requisition, and contribute to other office works.

Internship at Service Department

SIEMENS Healthineers

Feb 2, 2020 - Mar 2, 2020 (3 Months)

- To know basic of medical equipment like CT Scan, MRI, X-ray, and so on as well as understand how to apply these knowledge.
- To install or service medical equipment in a hospital which is provided by Siemens Healthineers.
- To collaborate with office work by which try to enrich personal and professional skill.

EDUCATION

Bachelor of Science

American International University-Bangladesh

- Department: Electrical and Electronics Engineering
- Result: CGPA 3.85 on a scale of 4.00
- Passing Year: December, 2019
- Member, IEEE AIUB Student Branch
- Member, ACES Research Group (ARG) 3.0

EDUCATION

Higher Secondary Certificate

Ideal College, Dhanmondi

- Department: Science
- Result: GPA 4.40 on a scale of 5.00
- Passing Year: August, 2013 from Dhaka Board

Secondary School Certificate

Monipur High School

- Department: Science
- Result: GPA 5.00 on a scale of 5.00
- Passing Year: May, 2011 from Dhaka Board

SKILLS & ENDORSEMENT

Programming Language

C Programming



C++



Python



Tools and Technologies

Microsoft Office (Word, Excel, PowerPoint)



Proteus Simulator



ExpressPCB



Microwind & DSCH version 3.5



MATLAB & Simulink



AutoCad



RETScreen



Industry Knowledge

Medical Devices & Technology



Microcontrollers



Sensors & Automation



Printed Circuit Board (PCB) Design



Image Processing Using Python



Very Large Scale Integration (VLSI)



Renewable Energy & Power Station



Basic IT Networking (CCNA)



Website Design Using WordPress



FB Page & Digital Marketing



Language Proficiency

Bengali

Native

English

Professional

INTERPERSONAL SKILLS

Communication and Teamwork

- I have proved my communication and teamwork skill during laboratory work, club activity and internship.
- Where I go, try to communicate with everyone related and most of the time, I come forward first.
- I enjoy to work as a group and try to collaborate with all.

INTERPERSONAL SKILLS

Leadership & Influencing

- I usually **acted as a leader** in the most of my laboratory groups. My experience of work was leaded me to this.
- I always **believe in work**, it can be alone or with a team. However, if the time comes to take responsibility and encourage team mate, I come forward as needed.
- I strongly **follow the ethics** and always try to understand my mates as well as lead them to achieve the goal.

Adaptability under pressure

- I love to **learn a new thing** and have no problem to work under presser.
- I experienced this when I started my capstone project. All of my team member, including me had no idea about python, machine learning and writing thesis book. My team and I decided to share the work according to our previous skill and as part of mine, I started to learn machine learning and python then. It was more **challenging** but interesting to me and finally, our **success** was come true.

Negotiation

- Listening is an important key of Negotiation. I have experienced as a **middle man** most of the time, among my family and friends.
- I always put myself on their shoes and try to understand them. Then I help them to come to a **peaceful agreement**.

Critical Thinking

- I always like to **think differently** and looking for **multiple solution**. Sometimes, it would be gone out of box.
- I also **respect tradition** and not all time follow a trend when I know, what is good and effective.

TRAINING / CERTIFICATION

Cisco Certified Network Associate (CCNA)

AIUB Institute of Continuing Education

Sep 12, 2020 - Feb 01, 2021

Python Data Structures

Coursera | Sep 01, 2020

Credential ID **5XVU57398Z8X**

Programming for Everybody (Getting Started with Python)

Coursera | Aug 19, 2020

Credential ID **S2D3WQZG2BXU**

HONOR & AWARD

DEAN'S Award

Capstone Project and Thesis | Dec 24, 2019

Issuer: American International University-Bangladesh

PUBLICATIONS

An Automatic Traffic Rules Violation Detection and Number Plate Recognition System for Bangladesh

AIUB Journal of Science and Engineering (AJSE) | Sep 30, 2020

URL: ajse.aiub.edu/index.php/ajse/article/view/97

Ref: R. Shahrear, M. A. Rahman, A. Islam, C. Dey, and M. S. R. Zishan, "An Automatic Traffic Rules Violation Detection and Number Plate Recognition System for Bangladesh", AJSE, vol. 19, no. 2, pp. 87 - 98, Sep. 2020.

NETWORKS AND MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)

Student Member | Jan, 2019 - Present

Section: Bangladesh Section

Region: R10 - Asia and Pacific

AIUB Alumni Association (ExAIUBian)

General Member | Jan, 2020 - Present

Email: info@exaiubian.com

Web: exaiubian.com

PROJECT & ACTIVITIES

Capstone Project and Thesis

- Title: Number Plate Recognition and Automatic Traffic Rules Violation Detection System for Bangladesh.
- Semester: Summer, 2018-2019 to Fall, 2019-2020.
- Objective: The main goal was to detect the number plate of a vehicle in while violating traffic rules by using Python.

Academic Projects

- Flood Warning and Water Level Monitoring System.
- Using VLSI Concept the Smart Elevator Mechanism is Designed with Universal Gates.
- Audio Signal Processing Using MATLAB.
- Laser Security System Implementing on PCB.
- Light detector using NAND gate.
- Pulse Width Modulation (PMW) DC Motor Speed Controller.

PROJECT & ACTIVITIES

AIUB Engineering Jubilation 2018

Event | Oct 30, 2018

Competition: Line Following Robot (LFR).

Achievement: 2nd Runner-up.

IEEE Bangladesh Section SYWM Congress 2018

Event | Nov 30, 2018.

Organized by IEEE Bangladesh Section.

IEEE Student Professional Awareness Workshop (SPAW)

Event | Aug 04, 2018

Organized by IEEE AIUB Student Branch.

Introductory Data Science & Machine Learning

Workshop | Jul 11, 2019

Organized by Engineering Students' Association of Bangladesh (ESAB)

Worldwide Opportunity in VLSI: From Campus to Industry

Workshop | Jun 12, 2019

IEEE Computer Society and AIUB organized an event which was ICREST and this was part of that event.

HOBBIES



Reading



New Apps



IoT



Traveling



Singing

REFERENCES

- **Md. Saniat Rahman Zishan**
Capstone Project Supervisor
Associate Professor, Dept. of EEE & CoE
Head, CoE Department
American International University-Bangladesh
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- **Dr. Mohammad Hasan Imam**
Course Teacher
Senior Assistant Professor, Dept. of EEE & CoE
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