

# Aziz, Abdul

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## PROFILE REVIEW

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A highly motivated Masters student with critical thinking, great communication skilled, and research experienced. 4+ years of hands-on experience in different projects, electro-mechanical process plant and more than one year research experience in cutting edge research project.

### Key skills

- Computer aided design, model simulation and development.
- COMSOL, Klayout, Pspice, Inventor, AutoCAD, python, C++.
- Electromechanical and automation system installation and testing.
- MEMS, Microfluidic devices and sensors and measurements

## CAREER OBJECTIVE

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Looking for an opportunity based on clean room research work/study in an institution which provides professional development, interesting experiences and personal growth.

## EDUCATION

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### University of Bremen

Masters of Science, MSc.

Control, Microsystems and Microelectronics

**Bremen, Germany**

Summer 2022 – Present

### American International University-Bangladesh (AIUB)

Bachelors of Science, BSc.

Electrical and Electronics Engineering

**Dhaka, Bangladesh**

Spring 2013 – Fall 2016

## EXPERIANCE

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### Fraunhofer IFAM

Position: Research Assistant

**Bremen, Germany**

July 2022 – Present

- Working in a highly relevant solid state battery cell research development project.
- Testing different electrochemical materials and data observation.
- Working in glove box environment.
- Doing experiment and work in Electrochemical Impedance spectroscopy(EIS), X-ray powder diffraction (XRD), sputtering and mixing & dispersing, Machining.

### Doreen Power Limited Bangladesh

Position: Assistant Engineer

**Dhaka, Bangladesh**

May 2018 – April 2022

- Supervise, maintain & monitor operational activities of three MAN 18V48/60TS engine with ABB AMG 1600UU12 DSE alternator and a Triveni steam turbine (India), TST-2060 with WEG SPA 2.9MW alternator according to company policies and procedures.
- Responsible for troubleshooting, fault finding, repair, testing, different types of sensors replacement (Speed Pickup, Thermocouple, Level Switch, 2/2 Solenoid Valve, Level Sensor, WMS Sensor, Crankcase Pressure Sensor, proximity sensor), megger test and maintenance of all plant equipment as required supporting plant operation.

**Janasheba Foundation (JF)**  
Position: Project Electrical Engineer

**Chattogram, Bangladesh**  
April 2017- April-2018

- Design, implement, maintain and improve electrical instruments, equipment, facilities, components, products, and systems for commercial, industrial, and domestic purposes.
- Supervising 3150KVA, 2500KVA, 1600KVA, 630KVA power generators, substation in health care project.
- Operate computer-assisted engineering and design software and equipment to perform engineering tasks.
- Direct and coordinate manufacturing, construction, installation, maintenance, support, documentation, and testing activities to ensure compliance with specifications, codes, and project requirements

## **PROFESSIONAL TRAINING & MOOC**

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- Worked in clean room environment at University of Bremen, Germany
- “Programming of PLC for industrial automation, maintenance and troubleshooting of PLC System” at Siemens SITRAIN Digital Industry Academy.
- “SIMATIC TIA portal structured programming” at Siemens SITRAIN Digital Industry Academy.
- Various types of safety, Environment and firefighting on job training, DSPGL 2018-2020
- Workshop “PCB fabrication and layout design”, Mr. Kazi Ahmed Asif Fuad, Lecturer, Faculty of Engineering

## **LANGUAGE**

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- English - Well versed in both written and spoken.
- German- Basic user.
- Bengali - Mother tongue.

## **ADVANCED TECHNICAL SKILLS & KNOWLEDGE AREAS**

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Computer and Electronics-Knowledge of circuit boards, Processors, chips, electronic equipment, and hardware and software, including applications and programming.

- Programming Language: Python , C, C++ , CSS, HTML;
- MATLAB, LabVIEW.
- CAD: AUTOCAD, Inventor.
- Industrial PLC: Siemens PLC and Human Machine Interface ( HMI )
- Embedded System: AVR Microcontrollers, Arduino-interfacing, Programming, ResberryPI.
- Software tools : COMSOL, Klayout, Cadence, Hspice, Pspice, Proteus (circuit and PCB design), Codeblock.
- Office: Microsoft office package.

## **PUBLICATION**

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- Mohd Zean, Abdul Aziz, Minhajul Islam ,M.Salman Morshed Abir,Shuvra Saha “**CNTFET based Multiplexers and Magnitude Comparator**” (Published, Proceedings of the 2017 4th International Conference on Advances in Electrical Engineering (ICAEE), (Dhaka, Bangladesh).