RAFIQUL ISLAM

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# SUMMARY

* **Showcased problem-solving, analytical, and teamwork skills:** Analyzed production processes, oversaw maintenance, and supervised production teams to ensure smooth operations.
* **Completed mechanical training:** Gained valuable knowledge from TICI and Inspore Engineering, enhancing proficiency in mechanical systems and 3D designs using AutoCAD.
* **Led teams and excelled in presentations:** Demonstrated leadership abilities by leading teams in thesis and departmental projects, consistently ranking in the top 5% of classmates for presentation skills, and actively participating in competitions.
* **Engaged in impactful extracurricular activities:** Actively involved in student association, including skill development and voluntary organizations, held senior levels, and successfully organized several national & international events.

# PROFESSIONAL EXPERIENCE

**Orimat Upper Limited** | ENGINEER (INTERN) March 2023 – April 2024

Mirpur, Dhaka, Bangladesh

* + Implemented and thoroughly documented both preventive and breakdown maintenance procedures according to SOPs for all mechanical systems within the factory, leading to an around 8% increase in overall productivity of the machines.
  + Enhanced production speed by identifying and eliminating bottlenecks, while ensuring a substantial reduction of approximately 40% in button wastage.
  + Led the production team across 8 different departments, while analyzing process gaps and implementing corrective measures to achieve a 20% increase in output quality as well as a 15% reduction in production cycle time and rework.

**Inspore Engineering (Gopalpur Branch)** | TRAINER March 2019 – April 2019 (Duration 48H)

* + Initiated and managed training sessions for over 50+ candidates at HSTU, instructing them on the diverse software tools and providing training in both 2D and 3D modeling with AutoCAD.

# TRAINING

**Training Institute for Chemical Industries (TICI)** December 2021 – January 2022

Industrial Technology on Mechanical Engineering Polash, Tangail

* + This industrial training focused on several mechanical systems, such as,

Machine shop technology | Mechanical power transmission | Engineering materials | Vibration analysis | Alignment technology | Industrial safety | NDT | Measurements | Welding technology | Lubricants & lubrication | Boiler | Turbines | Compressor | Reformer | Pumps | Heat exchanger | Cooling tower etc.

**Lnspore Engineering Bangladesh** | Autocad 2019 Essential Training December 2018 (Duration 24H)

* + 2D & 3D drawing using AutoCAD 2019

# EDUCATION

B. Sc. in Mechanical Engineering

### Bangbandhu Sheikh Mujibur Rahman Science and Technology Univrsity

**CGPA: 3.57** (Out of 4.00)

*Date of Result Published: 6th December, 2023*

### HSC (2016)

Cantonment Public School, Mymensingh

### GPA: 5.00

**SSC (2014)**

Cantonment Public School & College, Mymensingh

**GPA: 5.00**

# THESIS

### Numerical analysis of heat transfer performance in a zigzag channel with graphene oxide-ethylene glycol water nanofluid.

*(CFD Simulation)* Final Year

Software used: Ansys Fluent

# PROJECTS

**Automated Fire and Gas Safety** Presented to: Department (2020) Group Member: 02

### Third eye project

Presented to: IGNITION 2018-National Mechanical Festival Group Member: 04

**Hydroelectricity system** (Achieved 3rd Place) Presented to: Project Hub 2017 (IEEE BSSTU) Group Member: 03

**EXTRA CURRICULUM ACTIVITIES**

### Heat Exchanger Counter & Parallel Flow

Presented to: Department (2017) Group Member: 07

**Line follower robot** (without MC)

Presented to: National Robotech Festival 20176

Group Member: 05

## HSC Science Instructor at Several Teaching Academies (2018-2023)

1. **Freelance Graphic Designer** on Fiverr, Designcrowd & Upwork (2018-2022)
2. **HSTU Model United Nations Association** | General Secretary | Head of Documentation (2017-2021) *This organization, simulating the UN General Assembly, allows students to role-play as delegates from other countries, cultivating creative solutions for real-world challenges and developing essential communication skills such as negotiation, diplomacy, leadership, and teamwork.*
3. **Prothom Alo Bondhushava (HSTU Branch)** | Joint Secretary (2017-2020)

*A voluntary organization aim at helping society through various activities.*

1. **BSST Mojar School** | Co-organising Secretary (2017-2019)

*The organization offers free education to poor students, helping them overcome the educational barriers of poverty*.

# AWARD

**Best Delegate Award** | NSTU Model United Nations 2019 Committee: United Nations Human Rights Council (UNHRC)

# APPRECIATIONS

* + **Director General** | BSTU Model United Nations 2019
  + **USG of Documentation and Publications** | BSTU Model United Nations 2020

# TECHNICAL SKILLS

* Solidworks
* Ansys Fluent (CFD Simulation)
* AutoCAD

# INTERPERSONAL SKILLS

* Adobe Illustrator
* Adobe Photoshop
* Microsoft Office (Word, PowerPoint, Excel)

Team work | Public speaking | Project Management | Problem Solving | Leadership | Communication | Work Under Pressure

# LANGUAGE SKILL

**English | Level: Advance C1 | IELTS: 8** (October 2023) Bengali | Native

# REFERENCES

### Kh. Karim Ahsan

Assistant Professor

Department of Mechanical Engineering,

### Bangbandhu Sheikh Mujibur Rahman Science and Technology Univrsity. (BSMRSTU)

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### Md. Mazharul Islam

Assistant Shift in Charge

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Relation: Brother