

Md. Tusher Mahmud

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EDUCATION

Bachelor of Science in Mechanical Engineering <i>Bangladesh University of Engineering and Technology Dhaka, Bangladesh.</i>	<i>CGPA: 3.54/4.00 (March 2018 - May 2023)</i>
Higher Secondary School Certificate <i>Sardah College Sardah, Charghat Rajshahi</i>	<i>GPA: 5.00/5.00 (May 2015 - June 2017)</i>
Dakhil <i>Mungli Darus Sunnah Dakhil Madrasah Mungli, Charghat Rajshahi</i>	<i>GPA: 5.00/5.00 (January 2013 - January 2015)</i>

PROFESSIONAL EXPERIENCE

Industrial Trainee <i>Ashuganj Power Station Company Limited (APSCL) Ashuganj, Brahmanbaria-3402</i>	<i>(October 2022 - November 2022)</i>
Executive, Area Sales, Hardgoods <i>Head of Territory - Mirpur Linde Bangladesh Limited 285 Tejgaon I/A Dhaka 1208, Bangladesh</i>	<i>(July 2023 - Present)</i>

TECHNICAL SKILLS

- **CAD Modeling:** Solidworks, AutoCAD
- **Machining:** Welding, Lathe, Milling, Shaping, Drilling
- **CFD, FEA and Analysis tools:** COMSOL Multiphysics, ANSYS Workbench (FLUENT), MATLAB
- **Circuit Modeling:** Proteus, Tinkercad
- **Programming Language:** Python, C, Arduino IDE, Processing IDE
- **Office Accessories:** MS Word, MS Excel, MS Powerpoint.
- **Plotting tools:** Tecplot 360
- **Other Software:** 3E Plus, HTRI

MANAGEMENT SKILLS

Mess Manager <i>Dining Sher-E-Bangla Hall, BUET</i>	<i>(13 May 2022 – 13 June 2022)</i>
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PROJECTS

Self-stabilizing Laser Turret

- Used *SOLIDWORKS* for designing and building the prototype of the electro-mechanical system.
- Utilized *Arduino Uno*, *Accelerometer sensor (GY S21)* and various type of servo motors for building the physical Model
- Used *Proteus* for circuit designing and *Tinkercad* for designing and simulating the *Arduino uno* circuits

Design of a Counter-flow Shell and Helical Coil Tube Heat Exchanger

- Used *HTRI* for optimizing design parameters according to the system demand
- Analyzed and calculated the design parameters of a heat exchanger for manufacturing
- Used *ANSYS (FLUENT)* to simulate the flow and pressure drop inside the shell and tube.
- Used *Abaqus* for simulating the structural stress generated due to the flow.

THESIS

Thermal performance of rectangular fins within a vented enclosure for various geometric configurations

- Designed the physical model and performed simulation in *Comsol Multiphysics 6.1*
- Used *Tecplot 360* for post processing.
- Optimized the best geometric configuration for the most effective heat transfer.

CONFERENCES

International Conference on Advanced Materials in Innovative Technology (AMITY- 2022)

- Received **best paper award** for presenting the paper entitled “*MHD Conjugate Mixed Convection in a Triangular Cavity with Heat Conducting Rotating Cylinder*”

SELECTIVE CERTIFICATIONS

- **Supervised Machine Learning: Regression and Classification**
Stanford University / Coursera February 2023 Credential ID: Y8V2UCWFDS24
- **Matlab Onramp**
Mathworks January 2023

LINGUISTIC PROFICIENCY

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| • Bangla | <i>Native or Bilingual Proficiency</i> |
| • English | <i>Full Professional Proficiency</i> |
| • Spanish | <i>Elementary Proficiency</i> |
| • Hindi | <i>Bilingual Proficiency</i> |
| • Urdu | <i>Bilingual Proficiency</i> |
| • Arabic | <i>Elementary Proficiency</i> |

REFERENCE

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