

Md Naeem

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EDUCATION

Bachelor of Science in Mechanical Engineering

Bangladesh University of Science and Technology

April 2019 - Present

Dhaka, Bangladesh

CGPA: 3.66(current)/4.0

TECHNICAL SKILLS

Python
SolidWorks

Autocad
Tecplot

Matlab
Word

Excel
PowerPoint

Lammps
L^AT_EX

RESEARCH INTERESTS

- Molecular Dynamics
- CFD
- Machine Learning
- Deep Learning
- Multiscale Materials Modeling
- Mechanics of Materials
- Solid Mechanics
- Finite Element Analysis

PROJECTS

Title: Design of a Double Pipe Heat Exchanger

March 2023

DOI: [10.13140/RG.2.2.34562.90566](https://doi.org/10.13140/RG.2.2.34562.90566)

- **Tools:** SolidWorks, Ansys, HTRI, 3eplus
- Designed and fabricated a double pipe heat exchanger
- Calculated the design parameters by hand and using HTRI
- Created a 3D model using SolidWorks and performed a simulation using Ansys

Title: Automated Decision-Making: A Rock- Paper-Scissors Playing Hand Robot

Sept. 2022

DOI: [10.13140/RG.2.2.22189.70881](https://doi.org/10.13140/RG.2.2.22189.70881)

- **Tools:** Python, Arduino, SolidWorks, OpenCV
- Created both Arduino and Python code using OpenCV library to detect the hand gesture
- Created a 3D model of the robot using SolidWorks
- Assembled the robot with 6 servo motors and implemented the gesture recognition algorithm

PROFESSIONAL EXPERIENCE

Trainee

01 Nov. 2023 - 21 Nov 2023

North West Power Generation Company Limited

Khulna, Bangladesh

- Created Ts diagram for combined cycle power plant, demonstrating strong thermodynamic understanding
- Expertly aligned pumps during maintenance with laser tools, showcasing precision machinery skills
- Resolved non-starting fire pump issue, highlighting effective problem-solving and troubleshooting
- Acquired comprehensive knowledge of combined cycle power plant operations

REFERENCES

[Dr. Mohammad A. Motalab](#), Ph.D.
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BUET, Dhaka
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