Md Naeem

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Education

Bachelor of Science in Mechanical Engineering April 2019 - Present
Bangladesh University of Science and Technnology *Dhaka, Bangladesh*
CGPA: 3.66(current)/4.0

Technical Skills

Python **Autocad** **Matlab** **Excel** **Lammps**
SolidWorks **Tecplot** **Word** **PowerPoint** LaTeX

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

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

Title: Automated Decision-Making: A Rock- Paper-Scissors Playing Hand Robot Sept. 2022
DOI: 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