



Md Abid Al Morshed

Mechanical Engineer

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EDUCATION

Bangladesh University of Engineering and Technology

Dhaka, Bangladesh

- BSc in Mechanical Engineering
 - Cumulative **GPA:** 3.67/4.00
 - Relevant Coursework: Electrical and Electronics Technology, Metallic Materials, Industrial Management, Measurement and Quality Control Numerical Analysis, Computer Programming Language, Machine Design.

Graduated: 27 May 2023

Chittagong College

Chittagong, Bangladesh

- Higher Secondary School Certificate
 - **GPA:** 5.00/5.00

Session 2015-2017

PROFESSIONAL EXPERIENCE

Energypac Engineering Ltd

Baruipara, Savar, Dhaka

- Internship Trainee
 - Learned about the production, assembly, and distribution of several transformer kinds.
 - Conducted several tests (CT/PT test, Resistance test, pf test, Insulation Resistance test) to ensure the product's quality.
 - Learned substation operation and power distribution.
 - Introduced with multiple welding, burnishing and painting techniques to construct transformer bodies

Oct 2022-Nov 2022

RESEARCH EXPERIENCE

Undergraduate Thesis

Thermal Analysis of Advanced Adiabatic Compressed Air Energy Storage System with Phase Changing Materials as Thermal Energy Storage

- Used ANSYS 3D design software tools to model TES system and FLUENT to solve for heat transfer and laminar flow.

Current Work

- Mixed convective heat transfer characteristic in vented cavity under dynamic flow modulation using CFD and Artificial Neural Network Model Approaches
- Regulation of Nanofluid Flow Through a Vented Cavity with Double Rotating Cylinders by Temperature-Controlled P, PI, and PID Controllers

- Used COMSOL Multiphysics to model and solve for heat transfer and laminar flow. MATLAB is used to incorporate ANN and ANFIS with CFD model.
- Used COMSOL and PID controller model to design and solve for regulated laminar flow.

PROJECTS

Electro-Mechanical System Design	An Arduino based Self-Balancing System	➤ Used SolidWorks to model prototype and Fritzing to design circuit. Final model was built using an Arduino nano.
Thermo-Fluid System Design	Building a Refrigerator using Peltier Effect	➤ Used AutoCAD and SolidWorks to design prototype and final model was built using DIY material

SKILLS

- **Software tools**
 - **Office Softwares:** Excel, Word, PowerPoint, Visio
 - **Design Softwares:** CAD, SolidWorks
 - **Engineering Softwares:** COMSOL, ANSYS
- **Programming Languages** Python, Matlab, C
- **Markup Language (web designing)** HTML, CSS
- **Communication** Written and Oral Communication: English and Bangla

HONORS AND AWARDS

Bangladesh University of Engineering and Technology

- University Stipend Scholarship 2019 and 2020
- Dean's list Scholarship Jan 2018 and Jul 2018

Community of Physics

- 2nd Workshop on Relativity 3 March 2018
 - Certificate of Participation

Kaler Kantho

- Biology Olympiad (Regional) 2017
 - First Runner-up

CO-CURRICULAR ACTIVITIES

IMeche, BUET

- Media Content Co-ordinator June 2022-Present

Buet Automobile Club

- Technical Executive 2019-2020
- Deputy Chief (Design) 2020-2021

ADDITIONAL INFORMATION

Hobbies:

- Playing Guitar
- Graphics Design and Videography (Adobe Premiere Pro, Adobe After effects)

REFERENCES

Dr. Md. Zahurul Haq

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Department of Mechanical Engineering, BUET
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Dr. Md. Abdus Salam Akanda

Professor
Department of Mechanical Engineering, BUET
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