

Md Farhan

Learner, Engineer, Researcher

+880-1787595217

✉ mdfarhan6835@gmail.com

🌐 <https://github.com/mdfarhanfaiyaz>

in [mdfarhan.linkedin](https://www.linkedin.com/in/mdfarhan)

PROFILE

Bachelor of Science in Mechanical Engineering

Bangladesh University of Engineering and Technology

March 2018 - May 2023

Dhaka, Bangladesh

CGPA: 3.82/4.00

Merit Position: 25 out of 188 students.

EDUCATION

Degree	Institute	GPA/CGPA	Passing Year
B.Sc in Mechanical Engineering	Bangladesh University of Engineering and Technology	3.82/4.00	2023
Higher Secondary Certificate(H.S.C)	Amrita Lal Dey College	5.00/5.00	2017
Secondary School Certificate(S.S.C)	D.G.L High School	5.00/5.00	2015

INTEREST

- Molecular Dynamics, Computational fluid Dynamics and Heat Transfer.
- HVAC and Building Mechanical System, Aerodynamics.
- Energy, Manufacturing, Control Engineering.

RESEARCH EXPERIENCE

- **Thesis**
Performance Analysis by Mechanical Properties of a crumpled Graphene Electrode.(Preparing for Submission)
Supervised by,
Dr. Md. Ashiqur Rahman
Professor, Mechanical Engineering, BUET
- **CFDHT Work**
CFD study of MHD mixed convection in a quadrantal cavity with heat conducting rotating cylinder.(Under Review)
Supervised by,
Dr. Sumon Saha
Professor, Mechanical Engineering, BUET
- **Control Engineering work**
Assessment of Electronic Cooling System in a C-shaped Channel Using Temperature Dependant P, PI, PID
Controllers.

PROJECT

- Recommended an air-conditioning system for a residential building performing by cooling load calculation utilizing ASHRAE guidelines and databook.
Supervised by,
Dr. Arif Hasan Mamun
Professor, Mechanical Engineering, BUET
- Accident Reduction System Design by detection of driver drowsiness.
Supervised by,
Dr. A.K.M Monjur Morshed
Professor, Mechanical Engineering, BUET
- Design of a Shell and Tube heat exchanger with helical baffle and study performance.
Supervised by,
Kazi Arafat Rahman
Assistant Professor, Mechanical Engineering, BUET

WORK EXPERIENCE

1. Teaching experience of few Undergraduate students some core courses of Mechanical Engineering.
 - Sydney University, Sydney, Australia.
 - Islamic University of Technology(IUT), Gazipur, Bangladesh.
 - Ahsanullah University of Engineering and Technology, Dhaka, Bangladesh
2. Internship at 360 MW Combined Cycle Horipur Power Plant, Narayanganj, Bangladesh.
3. Mentor of Udvash Academic Coaching Centre Private care.

TECHNICAL SKILLS

- **Simulation Software:** COMSOL Multiphysics, ANSYS, LAMMPS, HTRI, 3E Plus.
- **Modelling Software:** AutoCAD, SOLIDWORKS.
- **Developer Tools:** MATLAB, LaTeX.
- **Programming Language:** Basic C, Python, Arduino IDE, Java, MySQL.
- **Microsoft Office:** Excel, Words, Powerpoint.
- **Graphing and Statistics:** Tecplot 360.

ACHIEVEMENTS AND AWARDS

- Government Board Scholarship, Barisal Board,Bangladesh (2009,2011,2017)
- Secured 6th position in the Preliminary Round of the 7th **Bangladesh Chemistry Olympiad** in 2016.
- Secured 5th position in the Preliminary Round of the 7th **Bangladesh Physics Olympiad** in 2017.
- University Merit Scholarship for Academic Excellence (BUET) (2019, 2020, 2021)
- Dean's List Scholarship(BUET). (2018, 2019, 2021)

EXTRACURRICULAR ACTIVITIES

First Runner up at BUET Hult Prize 2023.

AFFILIATIONS

- Affiliate Member of BUET Automobile Club.
- Affiliate Member of IMechE BUET Student Chapter.
- Member of BADHON(A Blood donation group).
- Member of Multiscale Mechanical Modeling and Research Network (MMMRN)

GRE SCORES

- will appear soon

TOEFL SCORES

- will appear soon

CORE COURSES COMPLETED

Compulsory Courses

1. Statics 2. Dynamics 3. Solid Mechanics 4. Numerical Analysis 5. Mechanics of Machineries 6. Fluid Mechanics 7. Fluid Macineries 8. Machine Design 9. Instrument and Measurement 10. IC Engine 11. Refrigeration and Building Mechanical System 12. Powerplant Engineering

Optional Courses

1. Automobile Engineering 2. Control Engineering 3. Composite Materials 4. Applied Engineering Mathematics

REFERENCES

1. **Dr. Md. Ashiqur Rahman**
Relation: Undergrad Thesis Supervisor
Professor,BUET
Email: ashiqurrahman@me.buet.ac.bd
2. **Dr. Shahreen Chowdhury**
Relation: Undergrad Advisor
Assistant Professor,BUET
Email: shahreen@me.buet.ac.bd

DECLARATION

I, with the undersigned stated all of the aforementioned informations are fully correct to the best of my knowledge and take responsibility of my provided information correctness.