



Md. Abdus Shabur

Lecturer, Institute of Leather Engineering and Technology, University of Dhaka

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Research Interests

- Mechanical Engineering
- Robotics
- Mechatronics systems
- Industrial Automation
- Operations Management
- Industry 4.0

Educational Background

August 2019 - February 2022	Master of Science (MSc) in Mechanical Engineering, Chittagong University of Engineering & Technology (CUET), Chattogram-4349, Bangladesh CGPA: 4.00 out of 4.00 (Link) Thesis title: Investigation of The Challenges and Opportunities for Implementing Industry 4.0 in The Steel Sector of Bangladesh (Supervised by Prof. Dr. Kazi Afzalur Rahman).
July 2014 - October 2018	Bachelor of Science (BSc) in Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh CGPA: 3.82 out of 4.00 (Merit position: 10 among 180 students) (Link) Thesis title: CFD Analysis on Aerodynamic Behaviour of NACA 0018 And NACA 0012 Airfoils at Low Reynolds Number (Supervised by Prof. Dr. Mohammad Ali). Project title: Design of an Obstacle-avoiding Robot Car using Arduino Microcontroller
April 2013	Higher Secondary Certificate (HSC) Examination GPA: 5.00 out of 5.00 (Link)
February 2011	Secondary School Certificate (SSC) Examination GPA: 5.00 out of 5.00 (Link)

Publications:

August 2020	Abdus Shabur , Afnan Hasan, & Mohammad Ali. (2020). Comparison of Aerodynamic Behaviour between NACA 0018 and NACA 0012 Airfoils at Low Reynolds Number Through CFD Analysis. Advancement in Mechanical Engineering and Technology , 3(2), 1–8. (doi.org/10.5281/zenodo.4003677)
June 2021	Shabur, A. , Hridoy, M.W. (2021). The Investigation of Challenges of Implementing Industry 4.0 In Bangladesh. <i>Academia Letters</i> , Article 775 (doi.org/10.20935/AL775)
March 2022	Md. Shabur , Md. Asif Hasan Khan and Md. Shamim Rayhan. Turbulent Kinetic Energy Analysis of NACA0012 and NACA0018 Airfoils at Two Reynolds Number Using CFD Tool. <i>ScienceOpen Preprints</i> . DOI: 10.14293/S2199-1006.1.SOR-PPQGB0H.v1

April 2022	Md. Abdus Shabur , Md. Asif Hasan Khan, & Nafis Saad Resan. (2022). Computational Fluid Dynamics Analysis on Turbulent Kinetic Energy Distribution of NACA 0018 Airfoil at Two Reynolds Number. Research and Reviews: Journal of Mechanics and Machines, 4(1), 1–12. https://doi.org/10.5281/zenodo.6451982
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Teaching Experiences:

November 2022 - Present	Lecturer , Institute of Leather Engineering and Technology, University of Dhaka Offered courses: Introduction to Mechanical Engineering, Engineering Drawing, Mechanical Power Transmission System, Optimization Techniques for Leather products and Footwear Engineering, Material Management etc. Undergrad Thesis supervision: 2 students
January 2023- Present	Part-Time Teacher , Department of Robotics and Mechatronics Engineering, University of Dhaka Offered Course: Mechanical Power Transmission Systems
June 2022 - November 2022	Assistant Professor , Department of Mechatronics and Industrial Engineering, Chittagong University of Engineering & Technology (CUET), Bangladesh Offered courses: Operations Management, CAD/CAM, Computer Integrated Manufacturing, Robotics, Engineering statics and Dynamics, Mechanics of Materials, Production Process, Measurement, Material Handling and Maintenance Management, Mechatronics etc. Undergrad Thesis supervision: 6 students Course coordination: 30 undergrad Students of Level 4
July 2019 - June 2022	Lecturer , Department of Mechatronics and Industrial Engineering, Chittagong University of Engineering & Technology (CUET)
Jan 2019- July 2019	Lecturer , Department of Mechanical Engineering, Bangladesh Army University of Science and Technology, Saidpur, Bangladesh Offered courses: Fundamental of Mechanical Engineering, Fluid Mechanics, Engineering Drawings etc.

Software Skills

- **SOLIDWORKS**- Solid Modeling Computer-aided Design Platform
- **AutoCAD**
- **Ansys Fluent**- CFD
- **Microsoft Office**
- **MATLAB**
- **Tecplot**-CFD Post-processing Data Visualization and Analysis

Presentation

- One **conference paper** in 5th International Conference on Mechanical Engineering and Renewable Energy 2021
- One **conference paper in** International Conference on Sustainable Development in Technology for 4th Industrial Revolution 2021

Achievements

- **Scholarship of University Merit 2016.**
- **Scholarship of University Stipend 2015 and 2017**
- **Scholarship of Dean List 2015, 2017 and 2018** (For achieving CGPA of 3.75 or above in Level-1, Level-3 and Level- 4).
- **Higher Secondary Scholarship** (Given by Rajshahi Education Board).
- **Secondary Scholarship** (Given by Rajshahi Education Board).

Extracurricular Activities

- **Vice President** of Student Welfare Association of Bhalain (2017-2019)
- **Moderator**, Green for Piece, CUET.
- **Advisor**, Greater Rajshahi Association, CUET
- **Judge**, Inter University Poster Presentation Competition arranged by *IEOM CUET Student Chapter*

Language Test

- IELTS: **Overall Band score 7.0** (Listening-7.5, Reading-7.0 , Writing-7.0 & Speaking-6.0)
- GRE: Not yet taken

References:

Dr. Mohammad Ali Professor, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET) Dhaka-1000, Bangladesh Email: mali@me.buet.ac.bd Phone: +8801732-194776	Dr. Mohammed Mizanur Rahman Professor and Director, Institute of Leather Engineering and Technology, University of Dhaka Dhaka-1209, Bangladesh Email: mizanur.rahman@du.ac.bd Phone: +8801710-417260	Dr. Kazi Afzalur Rahman Professor and Head, Department of Mechanical Engineering, Chittagong University of Engineering & Technology (CUET) Chattogram-4349, Bangladesh Email: afzal@cuet.ac.bd afzalur99@yahoo.com Phone: +8801680-453267
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