OMAR SAIF

Mechanical Engineer with three years of experience in mechanical design, manufacturing and numerical modeling. Certified associate designer with 200+ individual design and development projects between two different companies. Currently seeking a PhD position; focusing on mechanical design and fluid mechanics.

omarsaifabir@gmail.com *omarsaifme.github.io*

Work Experience

Research Associate Dhaka, BD | Apr, 2024 – June, 2025
Participatory Management ID
- Data Analyst
- Field Research Correspondent

Sr. Deputy Assistant Director Dhaka, BD | Oct, 2021 – May, 2022
Walton Hi-Tech Industries PLC
- Structural Designer, VRF Outdoor Units
- Model Manager, FCU and ERV Units
- Fair and Exhibition Coordinator

Jr. Mechanical Engineer Dhaka, BD | May, 2019 – Sep, 2021
Brightbirds Bedrijfsbureau (NL)
- Designer, Heavy Machineries and Accessories
- Research Assistant

Technical Skills

Mechanical Design and Analysis
- SolidWorks
- Autodesk Inventor
- AutoCAD
- ANSYS

Miscellaneous
- Python
- Keyshot
- FARO Scene
- C++

Education

Bachelor of Science in Mechanical Engineering Dhaka, BD | 2013 – 2019
Ahsanullah University of Science and Technology
Majors Included – Fluid Mechanics, Machine Design, Composites, Thermodynamics, Mechatronics, Heat and Mass Transfer, Numerical Analysis.

Higher Secondary School Certificate Dhaka, BD | 2010 – 2012
Notre Dame College
Major – Science

Secondary School Certificate Dhaka, BD | 2008 – 2010
Dhaka Residential Model College
Major – Science

Undergraduate Thesis

Comparison of Lift & Drag of Different Bird Wings by Numerical Analysis Dhaka, BD | 2018 – 2019
- Conducted CFD analysis comparing bio-inspired and conventional straight wings across multiple angles of attack
- Evaluated lift, drag, and other parameters to assess aerodynamic efficiency
- Found bio-inspired design offered higher lift and better high-angle performance, highlighting applications in maneuverability

Notable Certificates

Certified SolidWorks Associate, Mechanical Design — Jul, 2021
Dassault Systems

Innovation through Design: Think, Make, Break, Repeat — Jan, 2021
The University of Sydney

Python for Beginners — Feb, 2021
Udemy Academy

Flow over an Airfoil — Dec, 2023
ANSYS

Hobbies


Books


Chess


e-Sport


Photography