OMAR SAIF

Mechanical Engineer with three years of R&D experience in design, manufacturing, materials and process development.
Certified associate designer with 200+ individual design and development projects between 2 different companies.
Currently seeking a PhD position; focusing on CFD, mechanical design and complex mechanical systems.

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Education

Dhaka Residential Model College — **Dhaka, BD | 2008 – 2010**
Secondary School Certificate
GPA: 5.0
Major – Science

Notre Dame College — **Dhaka, BD | 2010 – 2012**
Higher Secondary School Certificate
GPA: 5.0
Major – Science

Ahsanullah University of Science and Technology — **Dhaka, BD | Fall, 2013 – Fall, 2019**
Bachelor of Science in Mechanical Engineering
CGPA: 2.694
Majors Included – Fluid Mechanics, Machine Design, Composites, Thermodynamics, Mechatronics, Heat and Mass Transfer, Numerical Analysis.

Work Experience

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

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

Research Associate — **Dhaka, BD | Apr, 2024 – June, 2025**
Participatory Management Initiative for Development
- Data Analysis, Report Preparation and Conduction of Field Research

Technical Skills

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

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

Undergraduate Thesis

Comparison of Lift & Drag of Different Bird Wings by Numerical Analysis — **Dhaka, BD | Apr, 2018 – Mar, 2019**
- Focused on fluid-mechanical performance of bio-design based specimen
- Three different bird wing shapes were considered as aircraft wings
- Comparative studies with industry standard solutions (Boeing 787-8)
- Primary experiments conducted on 172.5:1 scale model in open loop wind tunnel

Certificates

Certified Solidworks Associate, Mechanical Design — **Jul, 2021**
Issuing Authority – Dassault Systems

Python for Beginners — **Feb, 2021**
Issuing Authority – Udemy Academy

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

Supply Chain Logistics — **Jan, 2021**
Issuing Authority – Rutgers University

Hobbies


Books


Chess


e-Sports


Photography