



Saifuddin Rakib

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EDUCATION

IUBAT

(International University of Business
Agriculture and Technology)

B.SC. - MECHANICAL ENGINEERING

Jan 2015 - October 2018 | Dhaka
Cum. GPA: 3.66 / 4.0

HMMC

(Govt. Hazi Mohammad Mohsin College)

H.S.C. - SCIENCES

Jan 2011 - Apr 2013 | Chittagong
GPA: 5.0 / 5.0

CERTIFICATIONS

Certified SolidWorks Professional
Certified SolidWorks Associate (CSWA)
Industrial Design Foundations
Industrial Training on Manufacturing
Computer-Aided-Engineering (CAE)

COURSEWORK

AI For Everyone
Intro. to Programming with MATLAB
Neural Networks and Deep Learning
Python for Everybody Specialization
Machine Learning for Business Profs.

ORGANIZATIONS

SW Champions Dassault Systemes
Autodesk Ambassador (Gold)
Unit Coordinator at ESAB
Academic Officer at IMechE

SKILLS

PROGRAMMING

Python • Matlab
Latex • C • C++

ANALOGUE

Design Thinking • Sketch
Concept Generation

SOFTWARE

SolidWorks • NX
CATIA • Blender
Office • Adobe

LANGUAGES

Bengali • Native
English • Intermediate

HOBBIES

Sketching • Reading Book
Playing Guitar • Watching movie

INDUSTRY EXPERIENCE

BJIT GROUP | MECHANICAL DESIGN ENGINEER

Nov 2022 – Present | Full Time | Baridhara, Dhaka, Bangladesh

- Responsible for creating engineering drawings for Metso Outotec, Using Team-Center for collaboration with the offshore R&D Engineers.
- Incorporating with Design for Manufacturing (DFM) method in Machine of Mining Industry & Reverse Engineering to existing heavy equipment's.

CONFIDENCE GROUP | MECHANICAL DESIGN ENGINEER

Nov 2021 – May 2022 | Full Time | Dhaka, Bangladesh

- Administration, Management, and collaboration with BITAC. Involved in Bills of Materials BOM creation, 2D Drafting for industrial products.
- Design and Development of industrial-grade Water and Cargo Trailers in collaboration with the Directorate General of Defense Purchase (DGDP) for the United Nations following NATO Standards.

MAP GROUP | MECHANICAL DESIGN ENGINEER

Feb 2020 – Aug 2021 | Full Time | Chattogram, Bangladesh

- With overall responsibility to perform the Structural Chassis design for Engine Section, Routing pipe with Pump and Engine. Conducted cost analysis in Marine Grade Plates to reduce construction waste. Functional enhancement in product customization of Uplifting ladder
- Carry out a 3D CAD Model with the total specification of body parts for manufacturing of Dredger Machine and Emergency ladder and Pump Unit assembly for Rescue vehicle for Bangladesh Fire Service & Civil Defence

BMTF LTD. | MECHANICAL DESIGN ENGINEER (R&D)

Dec 2018 – Dec 2019 | Apprenticeship | Gazipur, Dhaka

- Managed all phases of the design process for existing REB products of Sheet Metal enclosure, drawings of injection moldings, and Die Castings.
- Designed a Scissor Car lift and developed its prototype by following DMAIC method, Performed weight saving, and systems optimization studies to reduce the manufacturing cost.

BMTF LTD. | INDUSTRIAL TRAINING INTERN

Oct 2018 – Dec 2018 | Gazipur, Dhaka

- Designed CAD Model and used (DFMA) method to improve overall operational efficiencies of a Mechanical car lift and its electrical systems.
- Trained to learn about Casting, Forging, Heat treatment, Machining, and Galvanizing process for creating Engineering Drawing following by GD&T

DESIGN EXPERIENCE

RISE UP LAB | INDUSTRIAL DESIGN ENGINEER

July 2018 – Sep 2018 | Internship | Uttara, Dhaka

- Applied Concept Generation for working Prototype and using Design for Excellence (DFx) method for manufacturing of (VAR) Simulator Machine
- Used Arduino IDE Code to collaborate with Automation Team to adjust the Actuator motion and implemented SolidWorks FEA Simulation

AWARDS

2020	8 th /54	Winner of Crane-O-Minia, Techfest, IIT Bombay
2018	10 th /500	Selected for Power and Energy Hackathon
2017	National	Champion of Robotics Festival (NRF)
2017	Intra	Champion of University Robolion-17