



ASM TOUFIQ IMAM

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COMPETENCIES

Mechanical Design Engineer having 8 years of experience in Technical drawings, technical design and engineering problems. Proficient at drafting detailed Mechanical drawings for Parts and Assemblies from CATIA V5 and Solidworks. Engaged in CPD (Continuous Professional Development) in **Mechanical drawing and Engineering solutions** with cutting edge technology.

ACHIEVEMENTS

- Secured First place on Science fiction writing. Khulna University of Engineering & Technology, Khulna, 2009.
- Elected as Committee Member to Computer Aided Design & Engineering Society of (CAD & CAE) affiliated by IMechE (Institute of Mechanical Engineers) and De Montfort University (**DMU**), Leicester, 2014-15.
- CATIA V5 R20 SURFACE DESIGN SPECIALIST Certification from Dassault System, Kuala Lumpur, 2017.

CORE COMPETENCIES

TECHNICAL SKILLS

EXPERT: CATIA V5 (Dassault Systems Certified), **Solidworks**, **ANSYS** (CFX, Static Structure), **MS Office** and Keyshot

ADVANCED: COMSOL Multiphysics, AutoCAD, Inventor, Rhino3D & ANSYS.

LANGUAGE SKILLS

English (Advanced), German (Basic) and Bengali (Native)

EMPLOYMENT HISTORY

Senior Assistant Director, Walton Electronics, Dhaka

(September 2019 – October 2020)

- Preparation of Bill of Materials.
- 3D and 2D Drafting of Washing Machine Components
- Resizing Tub for different model of the same series.
- Liaising with Suppliers and Vendors.
- Development of Efficient Design of the pulsator and the agitator.
- Product Validation testing.
- Optimizing Vibrational Characteristic in Washing Machine.
- Concept Development & Budget Preparation.
- Ensuring IEC Standard 60456:2010 Compliance for Washing Machine.
- Analysing Rheological properties of Washing Machine by CFD analysis.

Business Development Manager, Clixx.io, Sydney

(July 2018 – April'2019)

- **Prototyping Case Design** for thermo-electric sensors with Arduino micro-controller.
- **Generated** business opportunities with C-Level Executives.
- **Development** of Industry profiles and strong Client Base.
- **Liaison** with suppliers to collect samples and get quotation.
- **Development** and implementation of occupational health and safety protocols.
- **Standardize and documentation** of product development.

Assistant Manager, Product Development, PRAN-RFL Group, Dhaka (April 2016 – December 2017)

- Concept development by idea screening.
- Plan, Design and Development of
- Cabinet Liner for refrigerator.
- CFD analysis of R134a throughout capillary tube and hot runner.
- Preparation of Detailed Drawing of Refrigerator Assembly.
- Creation of BOM.
- Product Validation Testing
- Application of Reverse Engineering for modification.
- Application of FMEA and FMECA for identification of potential risks and hazards involved.

Reverse Engineer, Health & Life Science Faculty, De Montfort University, Leicester (August'2014 – January' 2015)

- Organized group of students to carryout **conceptual design**.
- Closely worked with wood shop for **making prototype**.
- Reconstruction of Medical **DICOM image**
- **Finite Element** Biomechanics and **Fluid Dynamics Simulation**
- Image construction and validation for **Soft Robotics**.

Mechanical Design Engineer, BJIT Inc., Dhaka

(September'2011 – January'2014)

Project: Metso Mineral

- Calculation of volumetric efficiency
- Assembly Design.
- Generated Bill of Material followed by 2D drafting/drawing.
- Identified, compiled and maintained 2D drafting design standard.

Project: Matsuda Model Pachinko Assembly

- Carried out 3D Surface modelling using GSD, Automotive class A (CATIA V5) and using Solidworks Plastics.
- Maintained critical 3D modelling considering undercut, flash, warping, and shrinking.

Internee, Biman Bangladesh Airlines, Dhaka

(September' 2009 – October' 2009)

- Received technical experience of maintaining and troubleshooting equipment such as pumps, tanks and valves
- Collaborated design and planning engineering to develop and document of GSE activities. Maintained, adjusted, calibrated, stored, overhauled associated parts when the Aircraft stays on the ground.

EDUCATION

De Montfort University, Leicester, UK
MSc in Mechanical Engineering

January'2014- January'2015

Khulna University of Engineering & Technology, Khulna, Bangladesh
BSc in Mechanical Engineering

February'2007- January'2011

REFEREE

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