

# Rifatul Islam

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## Objective

Seeking for a job in a Mechanical Engineering field.

## Key Skills

AutoCAD  
Workbench

ANSYS  
Microsoft Office  
C++ Programing  
Adams View

Autodesk Inventor  
MATLAB

## Education

**Bachelor of Science, Mechanical Engineering** (2017)

**Abu Dhabi University (ADU)- Abu Dhabi, UAE**

## Work Experience

**IBAS General Contracting Company.** (2017- Cont.)

- Working as a quantity surveying engineer and managing quotations sent to other companies. Furthermore, I am actively managing the company's property maintenance related work.

## Internship

**Trust Construction E.S.T** 2017

- Gained knowledge on the MEP related work of an Air Hanger. Also, researched about the types of fire safety systems that is required for compartments of various purpose.

## Senior Design

- Design, Fabrication, analysis and improvement of an electric motor driven R/C aircraft wing design made per the rules of SAE Aero design competition held in US. After selecting the shape of the wing, a model was built on Workbench for computing the fluid dynamics during flight. Based on the results, the model was imported to ANSYS for assessing its structural integrity. Finally, a prototype was built for the competition.

## Key Course Projects

- **Turbomachinery**- Studied various types of pumps and their characteristics charts. Also researched about different types of jet engines as well as outlining the equations required to determine temperature and pressure at all stages of the cycle.
- **Fluid Mechanics**- Planned a piping system for a two-storied building with a given flow rate.
- **Numerical Analysis**- Finding the Global Stiffness Matrix of a triangular element through ANSYS and MATLAB.
- **Machine Design**- Designed a motorized press in according to the given criteria of the press specification.
- **Manufacturing processes**- Manufactured a Vise using AutoCAD and various manufacturing process.
- **Material Science**- Conducted a research about Carbon Nano Tubes and how they can be manufactured.
- **Engineering Drawing and Workshop**- Designed a virtual sports car model using Autodesk Inventor and AutoCAD.
- **Air Conditioning**- Calculating the cooling load of a 2-storied building using cooling load temperature difference method and HAP.

## Volunteering Experience

**World Of Wonder events.** 2014 - 2015

- Guided people to their designated location and implementing protocols for safer environment in Formula-1 event.

**Sharjah Light Festival.** 2013

- Helped spread information and guide people to the Light Festival.

**New Year's Eve in Dubai.** 2012

- Guided the people and helped the security team to organize the crowd in a secure manner.

## Languages:

- Fluent English, Bengali and Hindi/Urdu

## Personal Information

- Date of Birth: 11/09/1993
- Father: Mohammad Azizul Islam (Senior Operator- Gasco)
- Visa Status: Father's Sponsorship
- Nationality: Bangladesh.
- Driving License: Manual (with car)