



## MD. MOHIUDDIN SOROJ

Mechanical Engineer

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### Core competencies

- ✓ Thermodynamics
- ✓ Heat And Mass Transfer
- ✓ Refrigeration And Building Mechanical System
- ✓ Powerplant Engineering
- ✓ Renewable Energy
- ✓ Aerodynamics
- ✓ Machine Design
- ✓ Internal Combustion Engine
- ✓ Automobile
- ✓ Mechanics of Materials
- ✓ Mechanics of Machinery
- ✓ Fluid Mechanics
- ✓ Control Engineering
- ✓ Fluid Machinery



### Skills Language

- ✓ Fluent in Bangla & English

### Professional

- ✓ Autocad 2D (Certified by ESCB)
- ✓ Solid Works
- ✓ Matlab
- ✓ Microsoft Office
- ✓ E-drawing

### Interpersonal

- ✓ Team Management
- ✓ Leadership
- ✓ Creativity
- ✓ Adoptability
- ✓ Collaboration
- ✓ Persuasion
- ✓ Public Speaking

## Career Objective

To Achieve Certain Goal, By Hardworking And To Take Any Kind Of Challenge To Get That Desired Goal. It's My Believe That Combination Of Skills And Hardworking Can Lead Anyone To That Position That He/She Desired And Cherished for.

## Academic Background

- |             |   |
|-------------|---|
| <b>2019</b> | <b>B.Sc. in Mechanical Engineering</b><br>Ahsanullah University of Science & Technology<br>CGPA-2.861/4.0 |
| <b>2014</b> | <b>Higher Secondary Certificate (Science)</b><br>Adamjee Cantonment Public College<br>GPA-5.0/5.0         |
| <b>2012</b> | <b>Secondary School Certificate (Science)</b><br>Adamjee Cantonment Public School<br>GPA-5.0/5.0          |



## Working Experience

### BTECH BD - Assistant Manager (Technical) (ON GOING FROM 07/09/2020)

- Joined As **Assistant Engineer (Mechanical)** at 07/09/2020 and Commissioned as **Assistant Manager (Technical)** in BTECH BD From 01/11/2020
- **BTECH BD** is a Joint Venture Organization of **BTECH Korea**, is a leading Environment solution provider & system integrator located in Bangladesh with wide regional presence in Republic of South Korea.
- Prepare Design & Implementation of **ZLD, W.T.P, S.T.P, and E.T.P Plants** along with preparing Quotation and cost estimation of proposed technical solutions based on actual market .
- Successfully Upgraded **Laundry Industries Ltd (ENVOY GROUP) E.T.P** FROM 100 m<sup>3</sup>/h to 200 m<sup>3</sup>/h as **Project Manager**.
- Current Project Manager of **WELL GROUP's S.T.P & Rainwater Harvesting Plant**. (100 m<sup>3</sup>/day)

### Radiant Shipyard Limited (FROM 1/05/2019-30/08/2020, 1 Year, 4 Months)

- Joined As **Assistant Engineer (Mechanical)** in Radiant Shipyard Limited From 01/05/2019
- Emphasis on the Mechanical Sector Including Commissioning And Maintenance Of Diesel Engines, Generators, Pumps And Hydraulic Systems (Anchor Winches, Power packs, Cranes) of the Ships.
- Prepare BOQ and cost estimation of proposed technical solutions based on actual market .
- Perform diagnostic work on mechanical faults, Troubleshooting and Overhauling of Engines, Generators and Air Compressors.
- Provide technical input to fund raising proposals and support/coordinate in carrying out .
- Successfully Delivered **MT PETROMAX-5** And **M.T. BASHUNDHARA LPG-2** LPG Gas Carriers as Project Incharge (Mechanical)

## Hobbies

- ❖ Travelling
- ❖ Teaching
- ❖ Reading Online Newspaper

## Industrial Knowledge

- ✓ Project Management
- ✓ Strategic Planning
- ✓ Document Management
- ✓ Piping and Instrumentation Drawing
- ✓ Fire Fighting

## Thesis

Design And Development Of A Plain Fin Microchannel Condenser for

- Better Heat Transfer And Increase The Coefficient of performance(COP)
- Compact The Size Of The Condenser and Effect Of Fins On Heat Transfer
- Being Able To Make Microchannel Condenser With Available Raw Materials Like Copper Capillary Tubes For Microchannel Path, Aluminium Sheet For Fins
- Being Able To Run Successfully The Existing Refrigeration Unit With Microchannel Condenser
- Measuring If There Is Any Pressure Drop Across In The Condenser Unit

## Internship

**Radiant Shipyard Limited (FROM 1/04/2019-30/04/2020,1 Month)**

- Learnt And Experience With The Functions Of Marine Engines,LPG Operations,Propulsion System & Hydraulic System Classified LPG Vessel

## Project

LPG Gas Leakage Detector and Automatically Control the Knob of The Cylinder Using Micro-controller And Gear Unit.

## Declaration

I hereby declare that the information provided on the above document is true and correct.



- Co-ordinate LPG Operation And Installation of LPG (Liquid , Vapor & Fire Hydrant) Pipelines Collaborate with **Design Engineering & Consulting(DEC)** for **LPG SELF PROPELLED COASTAL CARRIER (M.T. BASHUNDHARA LPG- 2**
- Successfully Delivered Two House Boats And One Work boat With Commissioning of 2.75MT 8m Foldable Knuckle Boom Crane for **DBL DREDGING LTD**, As Project Incharge (Mechanical
- Current Project Incharge(Mechanical) Of **BM LP GAS CARRIER-1** And Work Boats and Tug Boats Project for **DBL DREDGING LTD** upto last working day(**30-08-2020**)
- Mechanical Incharge of **Haji Selim CSD-1** and **Haji Selim CSD-2(Dredgers)** for **Madina Dredging** upto (**30-08-2020**)
- Successfully Commissioned and Installed **MITSUBISHI ENGINES, YANMAR ENGINES, CUMMINS ENGINES, WEICHI ENGINES, SOLE DIESEL ENGINES, WEICHI GENERATORS, COELMO GENERATORS , VOLVO PENTA GENERATORS,CUMMINS GENERATORS, MAXWELL GENERATORS AND STAMFORD GENERATORS**

## Industrial Experiences

**Dutch Bangla Power and Associates Limited(18/02/2019)**

- Learnt And Experience With The Functions Of Diesel Cycle Powerplant

## Professional Courses

### **AutoCAD(2D)**

- ✓ Autocad 2D From **Engineering Staff College , Bangladesh(ESCB)** Under **Institution Of Engineers,Bangladesh(IEB)** Obtained A (Above 93%) And Was First On That Batch

### **Welding Procedure & Qualification**

### **(WPS & WPQR)**

- ✓ Developing of Welding Procedure & Qualification
- ✓ Learnt about Welding Procedure Specification(**WPS**) and Welding Procedure Qualification Record(**WPQR**) Under Workshop Organised By **Sea Shore Engineering Management**
- ✓ Learnt Welding Positions(**ISO 6947**),Welding Processes(**ISO 4063**),Grouping System for Materials (**UR W11**),**ASME Sec IX**,Heat Input Calculation(**ASME Section IX**),Non-Destructive and Mechanical Tests(**IACS UR W28**),Drafting & Qualifying aWPS (**IACS UR W28**)

## References

**MD. ATAUR RAHMAN**

[M.Sc.Naval Architect(BUET),FIEB,MRINE(UK) CEO, Sea Shore Engineering Management Senior Surveyor NB H/MC, Station Bangladesh DNV GL Maritime]  
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**Engr.A.A.R. Shahriar**

[B Sc Engg. In Naval Arch & Marine Engg. (BUET) Director (Operation) ,Radiant Shipyard Limited Ex-Engineer & Ship Surveyor (Department of - Shipping)]  
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