

**Md Faiaz Arman Talukdar Tonmoy**

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**Education****Master of Science in Environmental Engineering**

Sept. 2023- Sept. 2025

University of Alberta, Edmonton, AB

Thesis Project:

Greenhouse Gas (CH<sub>4</sub>, CO<sub>2</sub> & N<sub>2</sub>O) Quantification at Gold Bar WWTP & Clover Bar Biosolids Lagoons by EPCOR, Edmonton, AB, Canada

**Bachelor of Science in Mechanical Engineering**

Feb. 2011- Mar. 2016

Bangladesh University of Engineering and Technology, Dhaka BD

Thesis Project:

Developing Short Fiber-Reinforced Composite Material and Measurement of the Material Properties.

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**Experience****Project Manager**

Mar. 2022- Jul. 2023

Sanli Environmental Limited, Singapore

- Planned and prepared the Master Schedule of Construction and Design-Built Water and Wastewater treatment projects
- Reviewed the Mechanical, Electrical, Instrumentation, Control, and Automation submittals before handing over to clients.
- Estimated project budget & labor cost and led the project to achieve a targeted profit margin
- Negotiated with approved vendors to finalize procurement of the project equipment as per contract and technical specifications
- Arranged monthly progress meetings with the engineering team as well as with the clients on the target completion and project delivery

**Senior Mechanical Engineer**

Jan. 2021- Mar. 2022

Sanli Environmental Limited, Singapore

- Interfaced with clients to ensure the designs meet contract specifications & requirements
- Supervised and inspected the installation, modification and commissioning works to tally with contract specifications prior to the joint inspection with client
- Led the design and project coordination team to deliver the required designs, drawings, and calculations on time
- Implemented earth/soil control measures at construction site and work with the Environmental Control Officer (ECO)

**Mechanical Engineer**

Feb. 2019- Jan. 2021

Sanli Environmental Limited, Singapore

- Prepared checklist for site acceptance testing and commissioning of mechanical process and equipment
- Provided necessary maintenance instructions of the equipment installed based on manufacturer's recommendations and site condition
- Engaged supervisors & workers to implement proper installation works on site

**Mechanical Engineer**

Nov. 2017- Dec. 2018

Yamato Technologies Pte Ltd, Singapore

- Designed piping & related supports for proper installation on site
- Coordinated site installation works and arranged inspection with RTO (Civil & Mechanical) to conduct quality checks
- Allocated manpower for site activities

**Assistant Mechanical Engineer**

Jul. 2016- Nov. 2017

Yamato Technologies Pte Ltd, Singapore

- Submitted BOM (Bill of Material) to procure department for ordering equipment
- Demonstrated calculations & drawings of mechanical systems and submitted to manager
- Organized daily & monthly reports of job progress and assisted project manager with monthly progress claims

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**Projects:**

- Replacement and Upgrading of Mechanical and Electrical Equipment at Kranji Water Reclamation Plant (KWRP)
- Replacement and Upgrading of Aeration System at KWRP
- Design and Installation of a Pilot Plant using a UV reactor for Water Treatment at KWRP NeWater
- Replacement of Mechanical & Electrical Equipment at KWRP
- Enhancement of Valve Actuators, Chemical Storage, and Pumping Systems at Tuas South Desalination Plant

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**Skills**

- AutoCAD, Adobe Reader, Microsoft Office (Word, Excel, Access, PowerPoint), Microsoft Project.
- Project Planning, Procurement, Customer Service & Client Handling
- Teamwork, Multi-tasking, Quick Learner
- Consummate in Written & Oral form of English and Bangla

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**Certifications**

- Develop a Risk Management Implementation Plan (Biz Safe Level 2), Singapore
- Building Construction Supervisor Safety Course, Singapore