

Mansura Jasmine

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Summary of Qualifications

- 3 years of experience working in a design, and management team of high-rise building construction work.
- 2 years of experience with supervision and monitoring of hospital construction, sanitation, and water supply work.
- Good theoretical knowledge of Sewerage and Sanitation systems, Onsite Wastewater treatment design, and Septic tank design and treatment.
- Experience in inspection and collecting data or information from the site.
- Experiences in parts of project management including schedule and budget management.
- Experiences in contract administration including proposal preparation, and meeting with contractors and stakeholders to collect information and execute deliverables.
- Basic knowledge of surveying and related drawing,
- Experience in Reinforced Cement Concrete Design and related drawing.
- Excellent teamwork and communication skills honed through professional work.
- Experience in preparing reports and presentations.

Skills

- Microsoft Word, Microsoft Office Excel, and PowerPoint, Microsoft Visio.
- MATLAB and Python
- AutoCAD
- Fluent in English and Bengali.
- Driving (G license)
- Adaptability
- Analytical skill
- Management skill

Work Experience

Research Assistant at University of Ottawa, ON, Canada (Sept. 2018-Apr. 2020)

- Researched on Evaporation estimation of arid climate (data taken from Arizona, USA). This Estimation is essential for proper management of hydrological resources. A MATLAB model was developed using artificial neural networks and some optimizer on it. The analysis ended up with the declaration of the best method.
- Data Analysis was performed by data extraction, data training and testing. Finally, comparison is presented using graphical representation.

Teaching Assistant at University of Ottawa, ON, Canada (Jan. 2020-Apr. 2020)

- Conducted undergraduate tutorial and lab classes on “Fluid Mechanics” for class size of 40.
- Marked assignments and examination manuscripts.

Customer Service Associate at Walmart Canada (Sept. 2016- Oct. 2019)

- Helped with customer service frontend, Cash operation and dealing with the customer.
- Managed difficult situations along with customer complaints.
- Sold Walmart reward Mastercard and awarded with the best seller of the season.

Shift Manager at Soul Restaurants Canada (Oct. 2013-Aug. 2016)

- Store management and handling customer complaints.
- Prepared store inventory, report writing to the General manager, performed and Store closing, Banking etc.

Junior Design Engineer, Design and Development Builder Limited (DDBL), Bangladesh (Feb. 2011-Dec. 2012)

- Performed structural modeling using design software and Supervised four-story modern building construction.

- Experienced on the application of building standardization guidelines; Bangladesh National Building code.
- Prepared detailed instructions along with drawing and drafting for construction sites for the advancement of the project.

Site Engineer, Development Design Consultants Limited (DDC), Bangladesh

(May 2009-Aug. 2010)

- Supervision and management of a huge project from starting to finishing work.
- Performed site inspection and contractor supervision of a 50 beds government hospital.
- Analyzed design, prepared the drawings, and drafting for project management.
- Prepared Weekly reports on project progress to the higher executive.
- Ensured pure drinking water supply and Sanitization system.
- Gathered experience in multidisciplinary work, electric wiring, sanitary work, maintenance, etc.

Education

Master of Applied Science, (M. A. Sc.), Civil Engineering

(Oct. 2020)

University of Ottawa, Ontario, Canada.

CGPA: **9.6/10.0**

Specialization on **Environmental Engineering**; **Thesis title**: A comparative study on prediction of evaporation in the arid area based on Artificial Intelligence Techniques.

Project Work

- Master's Thesis work: I have done Evaporation estimation (An important climate factor) using Artificial Intelligence. Data collection, analysis (training and testing by using MATLAB programming language), and Statistical analyses were done with a graphical presentation to verify results. After studying, compared results and the best-fitted model were declared. The thesis work has been published this year. (2018-2020)
- A project work on Environmental Management System was done as a part of a course work. Project Title: Ecological Sanitation - an alternative sanitation system and agricultural resource. (2019)
- Designed Septic tank, equalization tank, and Wastewater Treatment process, Nitrogen removal, Phosphorus removal, BOD (Biochemical oxygen demand) removal as a part of my course work for my master's study. (2019).

Awards / Recognitions

- Awarded with a certificate of excellence for my outstanding performance on Walmart Reward Master Card selling during my tenure as Customer Service Associates. (2017)
- Qualified by **Public Service Commission (PSC)**, Government of Bangladesh for Service in Public Health Engineering Department as an Assistant Engineer. (2013)
- Certificate for Successful Completion of the Orientation Course on Environmental Management System; "Community Participation and Management of Water Supply and Sanitation." (2008)

Leadership Experience

- Participant, Poster competition on Environmental Engineering and Management, University of Ottawa. (2020)
- Volunteer, Bayshore Community Association, Ottawa, Canada. (2016-)
- Member and Volunteer, Ottawa Bangladesh Muslim Funeral & social welfare Organization (OBMFO). (2015-)

JOURNAL PUBLICATIONS

- (1) **Jasmine, M.**, Mohammadian, A., & Bonakdari, H. (2022). On the Prediction of Evaporation in Arid Climate Using Machine Learning Model. *Mathematical and Computational Applications*, 27(2), 32.

References

Available upon request.