

# Tabassum Mushtary Meem

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🔗 meem-tabassum.github.io

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## 🎓 Education

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### MASc, Construction Engineering,

École de technologie supérieure (ÉTS) 📍

09/2021 – 04/2024

Montreal, Canada

- **Thesis:** Developing a rule-based assistant system for automating clash avoidance in BIM-based multidisciplinary coordination.
- **Graduate Courses:** (Replacement credits from Concordia University) Big data analytics for smart city infrastructure; Building Information Modelling (BIM) for Construction; Construction Planning and Control.

### Bachelor of Architecture,

Bangladesh University of Engineering and Technology (BUET) 📍

02/2011 – 02/2017

Dhaka, Bangladesh

- **Project:** Durable modular residential infrastructure design for disaster-prone areas of southeast Asia.

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## 👛 Professional Experience

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### Intern (BIM Coordination), CIMA+ 📍

05/2023 – 08/2023

Quebec City, Canada

- **BIM Coordination:** Performed clash detection, filtration, and resolution processes in more than 18 federated BIM models with Navisworks and Autodesk BIM 360 module.
- **Quality Assurance:** Conducted rigorous quality checks on 47 BIM models from MEP subdisciplines, ensuring 100% compliance with the BIM management plan and corporate standards.
- **Cloud BIM Project Management:** Administered the BIM 360 platform for 12 projects simultaneously, enhancing project collaboration and coordination efficiency.
- **Revit family creation:** Created customized parametric Revit families for MEP subdisciplines according to corporate standards.

### BIM Coordinator, One Works.

12/2019 – 08/2021

Rome, Italy

- **Team Management:** Trained and managed BIM technicians.
- **Project Management:** Managed construction projects and controlled documents with Microsoft Project, SharePoint, and Primavera.

- **BIM Coordination:** Led the clash detection, filtration, and resolution processes in architectural BIM models for over 40 projects. Performed regular quality assurance, and quality control checks according to organizational standards.
- **Dynamo script production:** Created and managed Dynamo scripts for Revit task optimization and BIM model creation.
- **Revit family creation:** Produced and maintained customized parametric Revit families for architectural discipline.

#### **BIM Architect, Insignia Studio**

05/2016 – 12/2019  
Dhaka, Bangladesh

- **BIM Coordination:** Led BIM coordination for commercial projects, resolving clashes among architectural, structural, and MEP disciplines.
- **Project Management:** Led a team of architectural technicians. Planned, managed, and tracked medium-scale projects via Microsoft Project and Primavera.
- **BIM Management Plan (BMP) Development:** Developed and managed construction documents, and comprehensive BMP packages according to corporate standards for residential, academic, and industrial projects.

#### **Intern (BIM Coordination), Insignia Studio**

08/2015 – 12/2015  
Dhaka, Bangladesh

- **Coordination Assistance:** Produced architectural BIM models and aided senior BIM coordinator in coordination meetings.
- **Visualization:** Contributed to 3D visualization of master plans and commercial projects.

### Skills

#### **Computer Aided Drawing**

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Autocad

#### **Modeling and Rendering**

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Autodesk Revit, Rhinoceros 3D, Podium, Lumion, Vray, Sketch up

#### **BIM Collaboration and**

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#### **Coordination**

BIM 360, BIM Track, Navisworks

#### **Programming Language**

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Python, HTML, CSS, C#

#### **Visual Programming**

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Dynamo, RapidMiner

#### **Project Management**

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Microsoft Project, Primavera

### Certificates

#### **LEED Green Associate**

Issued : Sep 2023

Credential ID : 11566997

### Languages

English ● ● ● ● ●

French ● ● ● ● ●

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## Publications

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### **Comprehensive clash prevention in BIM coordination using a rule-based system**

*International Conference on Computing in Civil and Building Engineering (ICCCBE) 2024*  
(Accepted)

**Tabassum Mushtary Meem** , Omar Doukari and Ivanka Iordanova

### **Methods to develop a comprehensive rule-based clash avoidance system based on expert opinion**

*Canadian Society of Civil Engineering (CSCE) Annual Conference 2023*

**Tabassum Mushtary Meem** , Omar Doukari and Ivanka Iordanova

### **Analysis Of Leed Certification Impact On Building Energy Consumption In Practice – A Data-Driven Approach**

*Canadian Society of Civil Engineering (CSCE) Annual Conference 2023*  
(Accepted)

Amir Sanatgar, Julia Gomes, **Tabassum Mushtary Meem**, Antoine Carrière and Mazdak Nik-Bakht

### **Clash Avoidance in BIM Based Multidisciplinary Coordination: A Literature Overview**

*Creative Construction Conference (CCC) 2022*

**Tabassum Mushtary Meem** and Ivanka Iordanova

### **Overcoming obstacles in BIM-based multidisciplinary coordination: A literature overview**

*Canadian Society of Civil Engineering (CSCE) Annual Conference 2022*

**Tabassum Mushtary Meem** and Ivanka Iordanova

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## Awards

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**PyCon Japan International Grant, PyCon Japan**

09/2022

**Winner : Three Minute Thesis Competition 2022 (poster),**

01/2022

*Association for the Advancement of Cost Engineering (AACE)*

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## References

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Available upon request.