

# Shahin Jalali

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New Graduate Civil Engineer – Infrastructure/Structural from Concordia University. Motivated and results-focused professional with more than 6 years of experience spearheading complex and effective engineering projects. Possess a combination of project management, leadership, and engineering knowledge and skills to successfully complete innovative project phases. Demonstrated ability to perform detailed analyses, utilizing results to develop cutting-edge engineering designs. Technical proficiency with ETABS, SAFE, SAP2000, S-Concrete, AutoCAD, Traverse PC, SAFI, SWEDGE, DIPS, Microsoft Office.

## **Areas of Expertise & Technical Skills**

- |                      |                        |                  |
|----------------------|------------------------|------------------|
| ▪ Engineering Design | ▪ Structural Analysis  | ▪ Data Migration |
| ▪ Project Management | ▪ Load Estimation      | ▪ Documentation  |
| ▪ Strategic Planning | ▪ Process Improvements | ▪ Leadership     |

## **Professional Experience**

**ABGEER Consulting Engineers, Inc.,** Tehran, Iran

5/2005 – 10/2011

### **Civil Technician**

Collaborated with civil engineers to successfully direct and execute multiple large projects, including SILVEH Dam and JALDIAN Spillway Tunnel. Drafted and edited complex maps, utilizing technical applications and systems to ensure accuracy. Conducted in-depth technical research throughout project lifecycles, developing and presenting reports during each project stage.

#### *Key Projects:*

#### ***JALDIAN Water Tunnel***

- Provided comprehensive assistance to senior project manager, planning, inspecting, and supervising hydraulic structure and field constructions.
- Performed various project support functions, including feasibility study, design development, and cost estimation.
- Utilized AutoCAD software to prepare dynamic project maps, technical reports, and presentations.

#### ***SILVEH Dam***

- Coordinated detailed project support, including planning, quality control, documentation, scheduling, resource estimation, and production management to support project manager.
- Managed field engineers and technicians, ensuring studies and earth structures designs completed in accordance with specifications to meet all project and company goals.

## **Educational Experience**

**Concordia University,** Montreal, QC

1/2015 – 3/2019

### **Bachelor of Engineering – Civil Infrastructure/Structure**

#### *Key Projects:*

#### ***15-Story Reinforced Concrete Residential Building***

*Location: Montreal, QC • Team Size: 7 • Objective: Design 15-story building in Montreal*

- Conducted detailed analyses of building requirements and load estimation using NBCC-2010.
- Designed columns, Slab, flexural reinforcement, and Performed preliminary and final shear check.
- Modelled the structure using ETABS, SAFE, SAP2000, and S-concrete.
- Designed ductile shear walls and basement walls.
- Designed mat, Isolated and strip Foundation for the building.
- Designed, drafted, and edited various structural drawings Using AutoCAD.

#### ***10-Story Reinforced Concrete Commercial Building***

*Location: Quebec City, QC • Team Size: Individual • Objective: Design 10-story building in Quebec City*

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- Conducted detailed analyses of building requirements and load estimation using NBCC-2010.
- Designed columns, Slab, flexural reinforcement, and Performed preliminary and final shear check.
- Designed structure of the building using ETABS, SAFE and Compared with Direct Design Method.
- Designed ductile shear walls and its detail reinforcement using the data extracted from ETABS.
- Designed, drafted, and edited various structural drawings Using AutoCAD.

## **5-Story Steel Frame Residential Building**

*Location: Quebec City, QC • Team Size: 2 • Objective: Design 5-story building in Quebec City*

- Conducted detailed analyses of building requirements and load estimation, using comprehensive data to design innovative gravity system and seismic force resisting system (SFRS).
- Designed the structure using ETABS.
- Designed, drafted, and edited various structural drawings, including floor framing plans, roof framing plans, columns schedule, column base plates layout, and braced frames elevation.

## **4-Story Steel Frame Residential Building**

*Location: Quebec City, QC • Team Size: 5 students • Objective: Design 4-story building in Quebec City*

- Performed comprehensive load estimation for various systems and processes, including dead load, live loads, snow load, wind load, and earthquake load to ensure proper support and functionality of building designs.
- Implemented multiple designs into overall plan, including beam, column, lateral load resisting system, and CBF designs.
- Designed the structure using ETABS.

## **Optimization of Sidewalk Snow Removal**

*Location: Montreal, QC • Team Size: 3 • Objective: Improve sidewalk snow removal operations utilizing cutting-edge hydroid pipe system, effectively promoting cost efficiency while maintaining superior service.*

- Executed in-depth research on snow removal methods, identifying various methodologies and areas for improvement to incorporate into project phases.
- Directed and administered evaluation of current snow removal system, including analysing amount of snow removed and incorporating data to develop new process system.
- Drafted and presented detailed reports, outlining and clarifying project costs, scope, schedule, and solution.

## **Education & Certifications**

**Bachelor of Engineering - Civil Infrastructure/ Structure Engineering** (anticipated April 2019)  
Concordia University, Montreal, QC

- Member of Golden Key International Honour Society
- Received Concordia University Golf classic ICB Scholarship for 2 consecutive years 2016/2017

Relevant Courses: Design of Steel structures I & II, Design of Concrete structures I & II, Foundation Design, Advanced Geotechnical Engineering, Transportation Engineering, Structural Analysis I & II, Surveying, Drawing, Environmental Engineering, Engineering Materials, Soil Mechanics, Engineering systems, Construction Engineering, Project Management for Construction

**Certificate Proficiency in English & Culture** (2013)  
McGill University, Montreal, QC

**Dec in Civil Engineering Technology** (2009)  
Azad University, Tehran, Iran

## **Volunteer Work**

**Vice Coordinator – Technology Advisor, McGill University, Montreal, QC**

- Participated in Tech-Savvy Program - Teaching and assisting senior Alumni in computer skills.