

# Wassef Dani Khawli

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Nationality: Canadian

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## CIVIL ENGINEER

- Upcoming graduate of Master Civil Engineering Program at the University of Western Ontario UWO, London, Ontario. Backed by successful internship experience and knowledge of engineering theories, principles, specifications and standards. Plan to earn Engineer in Training certification upon graduation.
  - Demonstrated 3D skills with the ability to design site layouts from concept through completion. Proficient user of AutoCAD Civil 3D, AutoCAD, Autodesk Revit, ETABS 18, Revit 19, S-Concrete, Safe, Plaxis 2D, ANSYS, SAP2000, MATLAB and Primavera. Able to handle different operating systems: UNIX, Windows and Linux.
  - Knowledge of Canadian Municipalities Planning Code, zoning, and Civil Engineering codes.
  - Steel and concrete designs.
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## Education & Credentials

**University of Western Ontario, London, Ontario Canada.**

**Master of Civil Engineering program MEng. Specialized in Structural engineering. Graduated December 2022.**

**Cumulative GPA 85.6%**

One of the important projects completed during the MEng program.

**Design of 40 story building:** A Finite Element Method project where we were required to design a high rise 40 story building in Quebec City, Canada. The main goal was to implement Mesh Sensitivity Analysis, satisfy the maximum lateral deflection and inter-story drift according to the National Building Code of Canada NBCC. Moreover, we were required to design the columns, beams and shear-walls using Etabs Design option. Check the interaction diagrams to avoid the overdesign of the building.

- **Course Highlights:**

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|-------------------------------|----------------------------------|
| ○ Wood Design                 | ○ Building Information Modelling |
| ○ Seismic Analysis and Design | ○ Project Management             |
| ○ Building Sustainability     | ○ Risk Management                |
| ○ Foundation Engineering      | ○ Steel Design                   |
| ○ Finite Element Analysis     | ○ Advanced Structural Dynamics   |

**University of Balamand, Lebanon. Graduated July 2021**

**Bachelor Science Civil engineering program, 139/139 credits completed**

- **Honors:** Dean's List (1 semester)
- **Senior Graduation project:** we were required to design a 2-story residential building using the ACI code as a reference, as well as designing the roadway across the building using CIVIL3D program, and conduct a BOQ (Bill of quantity) to estimate the total cost of the building, and design the foundation using SAFE software under ACI requirements. The building should satisfy the lateral and vertical deflection under serviceability limit state as well as satisfy the strength design under ultimate limit state.

- **Course Highlights:**

- Civil Engineering Design
- Shallow Foundations Design
- Structural Analysis & Dynamics
- Geotechnical Engineering
- Structural Steel Design
- Reinforced Concrete 1&2
- Environmental Engineering
- Water Fluid Mechanics & Hydraulics
- Transportation Engineering
- Construction Management

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## **Professional Experience**

### **University of Balamand, Lebanon**

#### **Internship at Matar construction company, Summer 2020 and Summer 2021**

- Assisted civil engineers in the construction of 3 block of residential compounds.
- Assisted with handling cost-of-materials estimations, project documentation, on-site project visits, invoice/agreement verification and building permit applications.
- Conducted site visits to analyze the initiation of the structures and determine structural integrity as well as safety.
- Prepared structural and technical drawing and specifications including framing and foundation plans, sections, connections and details using Auto-CAD and Revit (mainly for architectural drawings), Etabs was used for the structural drawings as well as the design of beams, columns and shear walls.
- Assisted in planning and overseeing the successful execution of various stages of the project in accordance with the contract drawings and specifications and per the ACI code standards and safety requirements.

### **University of Balamand, Lebanon**

#### **IT Support & Admin Assistant, Voluntary Student Work, fall 2017-Spring 2018**

- Involves working part time to provide technical support for students and assistance within University IT lab environments.
- Photocopying, filing, data entry, etc.

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*"We shape our buildings; thereafter they shape us." — Winston Churchill*