

Education

Master of Engineering (M.Eng.) in Civil Engineering

June 2015

- **University of Toronto** – St. George Campus, Toronto, Ontario.
- Specialization in cities engineering and management, infrastructure resilience and rehabilitation strategies.
- Major topics of study included; public policy and the economics of infrastructure development, systems and data analysis related to urban settings - focus on the Greater Toronto Area, risk and resilience planning of physical infrastructure, construction law / contract documents, and rehabilitation of physical infrastructure.

Bachelor of Engineering (B.Eng.) in Civil Engineering

June 2014

- **McMaster University** – Hamilton, Ontario.
- Civil Engineering degree in structural and municipal / water resource engineering. Experience in engineering analysis and design of steel and concrete structures, geotechnical, transportation, municipal hydraulics, and hydrology.
- Academic training in drafting, engineering software and modelling, materials testing, and surveying.
- University Dean's List student throughout undergraduate degree, graduated with distinction.
- Capstone project involved structural design of a low rise steel mixed use building, and a redevelopment plan for the North Hamilton waterfront.

Work Experience

Analyst – Cost & Project Management, Building Science

Altus Group Limited – Toronto, Ontario

June 2017 – present

- Responsible for completing site assessments of institutional, commercial, and residential buildings to produce detailed condition assessment reports. Review of architectural, structural, mechanical, electrical, fire life safety systems and building code review.
- Prepared building and facility assessments (property condition assessments meeting ASTM E2018 guidelines, technical and performance audits, due diligence reviews, capital planning, feasibility studies).
- Completed quantity takeoffs of site and building areas, estimated repair areas, and replacement cost estimates for future capital construction projects.
- Responsible for preparation of deferred capital expenditure plans for various facilities, including private and public sector clients. Coordination of costs across various disciplines (architectural, structural, mechanical, electrical, etc.). Detailed financial analysis and presentation in Microsoft Excel.
- Familiarization with the real estate industry within the GTA, construction and replacement values of buildings, and the development process.

Technical Specialist / Project Manager – Building Science

Build Max Limited – Toronto, Ontario

April 2015 – May 2017

- Building Science and Structural Engineering Consulting Firm.
- Technical Specialist role from April 2015 – April 2016, moved into Project Management role in April 2016.
- Experience in design and analysis of concrete, steel, wood, and masonry structures. Energy modelling and calculations.
- Responsible for site investigations, testing, and reporting of various building envelope and structural / architectural components; roofing, cladding, windows, waterproofing, underground parking garages, new construction.

- Preparation of technical specifications and drawings and contract administration of building restoration and new construction projects including but not limited to; roof replacements, cladding and wall repairs, window and glazing retrofits, balcony and underground parking garage rehabilitations, waterproofing, foundations and footings, concrete slab-on-grade, and steel structures. Involved in project values up to \$5 million.
- Project management and project controls, including budget and schedule tracking, change order management, payment certification, issuing substantial completion documents, and preparation of construction progress and summary reports.
- Completed projects with both private condominium and municipal clients in the GTA, including responding to municipal requests for proposal (RFP's), managing the construction tender process, coordination with owner and contractor representatives, and bid analysis.
- Experienced with the preparation and interpretation of unit or stipulated construction contracts, specifically CCDC-2 and CCDC-4.
- Working knowledge of the Ontario / National Building Codes, other applicable construction codes, and general construction practices.

Teaching Assistant – University Level

September 2012 – April 2014

McMaster University – Hamilton, Ontario

- *Structural Mechanics 2C04* and *Communications in Civil Engineering 2I03* – Second year courses at McMaster University within the Department of Civil Engineering.
- Responsibilities included; leading labs and tutorials, course workshops, marking reports, midterm tests and exams, invigilation, student/professor communication, and holding regular office hours.

Skills and Other Experience

Computer and Other Skills

- Proficient in *Microsoft Office* (Word, Excel, PowerPoint).
- Experience with *AutoCAD* for engineering drafting.
- Experience with *Microsoft Project* and *Primavera* scheduling and project management software.
- Strong ability to read and understand technical architectural, structural, mechanical, and electrical drawings, reports, and other documentation to gather appropriate conclusions and make recommendations.

Educational Research Papers and Reports

- “*Impacts of National Policies on Infrastructure Resilience*”, Canada, the United States and UK, APS1024 – Infrastructure Resilience Planning, University of Toronto, 2014.
- “*Economic Impacts of Urban Infrastructure*” Study and analysis of Toronto Infrastructure, the regional economy, and the ‘Big Move’ Infrastructure Plan for the City. CEM1003 – Infrastructure and Urban Prosperity at University of Toronto, 2015.
- Desktop Risk Assessment and Calculation Plan for Logistics Facility in Kabul, Afghanistan - APS1024 – Infrastructure Resilience Planning, University of Toronto, 2014.

Awards and Certificates

- McMaster University (B. Eng.) – Graduated with highest honours (summa cum laude), June 2014.
- Certificates of Completion - University of Toronto Centre for the Resilience of Critical Infrastructure: Infrastructure Resilience Planning and Infrastructure Protection.
- Applied for Professional Engineer (P.Eng.) designation in the Province of Ontario, awaiting issuance of licence.