

# Mohtady Sherif

Ph.D., P.Eng.



PO Box 84, Stn. B,  
London, Ontario  
N6A 4V3

## EDUCATION

Doctor of Philosophy in Structural Engineering (2021)  
Ryerson University, Toronto, Ontario  
Master of Applied Science in Structural Engineering (2017)  
Ryerson University, Toronto, Ontario  
Bachelor of Science in Civil Engineering (2011)  
Loughborough University, Loughborough, England  
Bachelor of Engineering in Civil Engineering (2011)  
The British University in Egypt, Cairo, Egypt

## PROFESSIONAL REGISTRATION & LICENSING

Registered Professional Engineer in Ontario since 2021  
PEO License No. 100524585

## TECHNICAL AFFILIATIONS

Canadian Society for Civil Engineering (CSCE)  
American Society of Civil Engineers (ASCE)

## SKILLS AND EXPERTISE

Mohtady earned both his Ph.D. and Master's degrees in structural Engineering from Ryerson University and is a licensed Professional Engineer in Ontario. He specializes in forensic structural investigations and the rehabilitation and restoration of existing structures. Mohtady is practiced in the analysis and design of all major structural materials: wood, steel, concrete, and masonry, and possesses sound knowledge of the Canadian building codes, bridge design code, and the blast-resistant design code. His experience includes teaching structural design and conducting academic experimental research at Ryerson University.

## PROFESSIONAL EXPERIENCE

### July 2021 to Present

Forensic Structural Engineer **Origin and Cause**  
London, Ontario

- Investigate a wide range of losses involving a variety of structures, including residential units, industrial facilities, commercial buildings, and farm installations
- Conduct site examinations of structural collapse and functional failures of existing buildings and facilities
- Prepare comprehensive technical reports with fact-supported professional opinions on the probable cause of the structural and/or building envelope losses
- Prepare emergency structural designs for temporary shoring to make damaged structures safe for entry during initial assessment and emergency work
- Provides complete designs and detailed drawings for the repair and/or reconstruction needed to restore the damaged properties.

### March 2017 to September 2020

Structural Analyst/Designer **Skeletal Building Inc.**  
Mississauga, Ontario

- The analysis and design of structures, shop drawings, preparing specifications, RFP, bidding and construction packages
- Contract administration and project management for building restoration

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## September 2014 to April 2021

Teaching Assistant **Ryerson University**

Toronto, Ontario

Job tasks included teaching the following fourth-year Engineering design courses:

- Structural Steel Design (F2014, F2015 and F2016)
- Bridge Design Capstone (F2015, W2016, F2016, W2017, F2017 and W2018, W2020)
- Strength of Materials II (W2015, S/S2015 and W2021)
- Structural Building Systems (F2017, F2018, F2019, F2020)
- Bridge Design and Construction (W2015, W2016 and W2017)
- Buildings Design Capstone (F2018, W2019, F2019, W2020, F2020, W2021)
- Structures III (Department of Architecture) (W 2018)

## March 2014 to November 2014

Research Assistant, **Ryerson University**

Toronto, ON

Job tasks included experimental work, analysis and reporting for the following projects:

- Testing Refractory Bricks for Joint and Interface Action for Hatch Ltd.
- Development of 130 MPa Ultra-High-Performance Fibre-Reinforced Concrete

## January 2012 to February 2014

Structural Engineer **Global Consultant Engineers**

Egypt

- Analysis and design of reinforced concrete structures, earth retaining structures, tanks and water retaining structures, and structural strengthening systems
- Design drawings, detailing and workshop drawings, calculation notes, and reports, and design review
- Provide construction support, including reviews of vendor/shop drawings, responding to RFIs, and performing field reviews of contractor progress
- Coordinate with other engineering disciplines, architects and building users to develop design criteria for each project, and ensure those criteria are correctly incorporated into the engineering deliverables
- Coordinate the preparation of civil/structural drawings and related construction work package, including new buildings, renovations/additions to existing buildings, and associated utilities

## July 2011 to January 2012

Structural Engineer **Nile Engineering Consultancy Bureau**

Egypt

- Analysis and design of reinforced concrete structures.
- Design drawings, detailing and workshop drawings, calculation notes, and reports, and design review
- Provide construction support, performing field reviews of contractor progress.
- Coordinate with other engineering disciplines and architects

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## FURTHER TRAINING

- Certificate of excellence of completion of the Falconbury online/distance learning course: "The Mini- M.B.A.", Falconbury Ltd, London, UK (June 2014)
- Working at Heights Training. (April 2019)
- Suspended Work Platform Systems Training (S.138 – User) in accordance with O.Reg 213/91 Construction Projects. (June 2019)
- PART 9 BUILDINGS - STRUCTURAL REQUIREMENTS 2012 online course (CRN-80095-202003), George Brown College, Canada (September 2021)
- Basic Drone Pilot Certificate Transport Canada (September 2021)

## RECENT SPEAKING ENGAGEMENTS

- What to look for when adjusting large losses. Ontario Mutual Insurance Association Webinar, September 2021 (*co-presenter*)
- Preliminary design guidelines and optimization of UHPC blast walls for different scaled distances. CSCE Annual General Conference, 2019 (*presenter*)
- Finite element analysis of ultra-high-performance fibre-reinforced concrete panel subjected to blast loading. CSCE Annual General Conference, 2019 (*presenter*)
- Effect of GFRP bar splice length on flexural strength of jointed precast concrete deck slabs with UHPFRC closure stripe. CSCE Annual General Conference, 2017 (*presenter*)
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- Development of ultra-High performance fibre-reinforced concrete as a closure strip filling material in prefabricated bridge applications. CSCE Regina, May 2015 (*presenter*)

## SELECTED PUBLICATIONS

- **Sherif, M., Othman, H., Marzouk, H., Aoude, H. (2020).** Design guidelines and optimization of ultra-high-performance fibre- reinforced concrete blast protection wall panels. International Journal of Protective structures, Vol 11, Issue 4, pp. 494-514
- Othman, H., Marzouk, H., **Sherif, M. (2019).**Effect of variations in compressive strength and fibre content on dynamic properties of ultra-high-performance fibre-reinforced concrete. Journal of Construction and Building Materials, Vol. 19, pp. 547-556
- **Sherif, M., Othman, H., Marzouk, H., Aoude, H. (2019).** Preliminary design guidelines and optimization of UHPC blast walls for different scaled distances. CSCE Annual General Conference.
- **Sherif, M., Othman, H., Marzouk, H., Aoude, H. (2019).** Finite element analysis of ultra-high-performance fibre-reinforced concrete panel subjected to blast loading. CSCE Annual General Conference.
- **Sherif, M., Sennah, K. (2017).** Effect of GFRP bar splice length on flexural strength of jointed precast concrete deck slabs with UHPFRC closure stripe. CSCE Annual General Conference.
- **Sherif, M., Sennah, K. (2017).** The strength of GFRP-reinforced precast concrete deck panels with closure strips filled with ultra-high-performance fibre-reinforced concrete. The Fifth International Conference on the Durability of Fibre-Reinforced Polymer Composite for Construction and Rehabilitation of Structures.
- **Sherif, M., Sayed-Ahmed, M., Sennah, K., Judieh, S., Zacarias, P. (2015).** Development of ultra-High performance fibre-reinforced concrete as a closure strip filling material in prefabricated bridge applications. CSCE Regina.