

**Siroos Shariati M.Eng., PMP®, P.Eng.**  
Structural Forensic Engineer

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### Professional Summary:

**Siroos Shariati, M.Eng., PMP®, P.Eng.** joined the Forensic Engineering team at EFI Global Canada in May 2023, as a Structural Forensic Engineer. Prior to joining EFI Global Canada, Siroos worked as a structural engineer and project manager, on many projects in Canada and abroad. Siroos is a Licensed Professional Engineer (P.Eng.) by Professional Engineers Ontario (PEO) and a certified Project Manager Professional (PMP) by Project Management Institute (PMI). His experience includes structural analysis and design, construction project management, construction inspection, site assessment, and existing building structural evaluation on a variety of projects in residential, commercial, and industrial sectors. He also helped many clients to obtain building permit and worked with different municipalities to satisfy their requirements. He has valuable experience in working in a multidisciplinary team environment and has been responsible for project management, cost estimating, preparing reports, preparing RFI and RFQ documents, carrying out site inspections, supervising drafters and Jr. engineers, review drawings and plans, quantity take-off measurement. Due to his experience as a freelance, he developed strong communication, leadership, analytical and problem-solving skills to satisfy clients' expectations while meeting provincial and national requirements and by-laws.

### Licenses and Certification:

- Certified Professional Engineer (P.Eng.) License Holder in Ontario
- Certified Project Management Professional (PMP)®

### Project Experience:

**Construction Review:** Provided on-site construction review for a variety of restoration or rehabilitation projects involving residential, commercial, industrial properties, including low- and mid-rise buildings, single-family and multi-family houses.

**Building Condition Assessments:** Conduct inspections and evaluations of the condition of numerous facilities for due diligence, risk management, asset management, renewal planning.

**Post Event Inspections:** Complete structure inspections after major events such as hurricanes, major rainfall events and fire events.

**Forensic Investigation:** Complete forensic investigations at buildings and properties to determine the origin and cause of damage, extent of damage, and scope of repairs.

**Construction Related Damage:** Forensic investigation of construction-related damage to neighboring buildings or properties.

**Restoration and Repair Planning:** Provide restoration, repair, rehabilitation, and strengthening designs for damaged structures and infrastructure. This has included work associated with residential, commercial, industrial.

**Building Demolition:** Support contractors by providing engineering survey to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during demolition operations.

**Non-Destructive Materials Testing:** Completion of in-situ non-destructive materials tests, involving structures to assess strength of materials, conformance to construction contract requirements, and for manufacturer warranties.

**Building Code Compliance:** Review existing construction to determine compliance with the applicable Building Code at the time of construction and design of building components for compliance with existing standards.

**Contract Administration:** Responsible for the administration of construction contracts on many construction projects, including the creation of construction contract documents including specifications and drawings, submittal review, creation of contemplated changes and change orders.

**Marketing and Sales Support:** Perform market research and identify potential clients and effectively communicate with them during the project and after delivering the projects.

### Major Projects:

- **Structural Failure, Various, Canada (2019-2023):** Forensic investigations regarding structural failures of a variety of buildings or structures.
- **Building Code Compliance Analysis, Various, Canada (2019-2023):** Forensic assessment of existing buildings to determine compliance with the applicable building code after personal loss.
- **Structural Repair Design, Various, Canada (2019-2023):** Design of structural repairs to return the structure to its pre-loss condition after fire, foundation settlement and high-wind damages.
- **Fire Damage Assessment, Various, Canada (2019-2023):** Forensic assessment of fire-related damage to buildings (wood, steel, and concrete structure).

- **Wind Damage Assessment, Various, Canada (2019-2023):** Forensic assessment of wind-related damage to buildings (wood, steel, and concrete structure).
- **Soil Settlement Damage Assessment, Various, Canada (2019-2023):** Forensic assessment of soil-related damage to buildings foundations.
- **Structural Design, Various, Canada (2019-2023):** Design of various structure (wood, steel, concrete, masonry, light frame steel), rehabilitation methods for building structures and foundations including underpinning, truss modification, flitch beam design, etc.

### Professional Experience:

- **EFI Global Canada, Richmond Hill, Canada**  
2023-Present  
Structural Forensic Engineer
- **Smart Structural Solutions Ltd., Vaughan, Canada**  
2021-2023  
Structural Engineer (P.Eng.)
- **Smart Structural Solutions Ltd., Vaughan, Canada**  
2019-2021  
Structural Designer (EIT)
- **Concrete Art Ltd., Richmond Hill, Canada**  
2019  
CAD Designer
- **Najv Sazeh, Esfahan, Iran**  
2013-2016  
Project Coordinator (High-rise building and industrial buildings)
- **Najv Sazeh, Esfahan, Iran**  
2011-2012  
Internship

### Education:

- Master's of Civil Engineering, Concordia University, Montreal, QC, Canada (Structural Design and Construction Management)  
(2016-2019)
- Bachelor of Civil Engineer-Civil, IAU University, Khorasgan, Iran  
(2006-2012)

### Training & Certificates:

- WHMIS Certificate (2023)
- Occupational Health and Safety Awareness for Workers Certificate (2023)
- Workplace Violence and Harassment for Employee Certificate (2023)
- AODA customer Service Standard Certificate (2023)
- Designing with the CISC Handbook of Steel Construction Course, 12<sup>th</sup> Edition, Canadian Institute of Steel Construction, Canada (2023)

- Construction Management: Reading Drawings & Specifications (2019)
- Civil engineering- Supervisor (2016)
- Advanced Design with ETABS Software (2016)
- Structure Design with ETABS Software (2014)
- Analysis & Design Reinforced Concrete Slabs & Foundations (2013)
- Project Management with MS project Software (2012)
- AutoCAD Design (2010)

#### **Academic Research and Presentation:**

- Comparison of wind loads calculated by fifth codes and standards, for low-rise buildings (Apr. 2018 – Jun. 2018)
- Application of Fiber Optic Sensor in SHM Application of Fiber Optic Sensor in SHM (Jan. 2018- Apr. 2018)
- Cost Estimation of 10000 sq of commercial building construction Cost Estimation of 10000 sq of commercial building construction (Sep. 2017 – Dec. 2017).
- Impacts of Applying LOB & Resource Leveling Technique on Five-Story Building (May 2017 – Aug. 2017)
- Bridge Rehabilitation Technique by using FRP (Nov. 2016 – Apr. 2017)
- Damper Effects on building Structures [Tuned mass dampers] (Nov. 2016 – Apr. 2017)