



Brett Lessard, B.A.Sc., P.Eng. *(he/him)*

(416) 368-1700 | blessard@30fe.com

902 – 40 University Avenue, Toronto ON M5J 1T1

EXPERT SUMMARY

Mr. Brett Lessard is an Associate with the Building Science team in the Civil/Structural group at 30 Forensic Engineering. He graduated the University of Toronto with a Bachelor of Applied Science and Engineering with a minor in Sustainable Energy. Mr. Lessard began his career in residential structural engineering for new construction of small buildings before focusing on the restoration and repair of existing buildings, first in structural restoration followed by building envelope restoration. Mr. Lessard is experienced in construction details for repair and restoration of building envelopes of varying scopes and ages, and, since joining 30 Forensic Engineering, has conducted investigations involving wind losses, water losses, and fire losses.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Building Envelope
- Building Condition Assessments
- Repair and Restoration of Buildings
- Investigation of Building, Property, and Construction Failures

ACADEMIC BACKGROUND

Bachelor of Applied Science and Engineering, Civil Engineering, Minor in Sustainable Energy, University of Toronto, Toronto, Ontario, 2016

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Building Science
2022 – Present, Toronto, ON

- Perform site investigations to collect information pertaining to incident losses in buildings, including wind losses, water losses, fire losses, and remediations
- Review record drawings and documents related to incident losses to determine contributing factors and inform repair/restoration to pre-loss condition
- Focus on building envelope assemblies such as roof, wall, window, and assembly transition details



RJC Engineers

Building Science Engineer
2017 – 2022, Toronto, ON

- Performed building condition assessments, site investigations, and water leak assessments of existing building envelope elements – from grade and working-at-heights
- Prepared reports for building owners, property managers, and project architects including observations, recommendations, and project estimates for building envelope restoration, and repair programs
- Prepared design drawings and contract documents, project tendering and contract administration during construction phases including site review, shop drawing reviews, and close-out
- Experienced in reviewing heritage masonry, fireproofing and firestopping, and moisture-related deterioration, in addition to typical building envelope construction materials and methodologies
- Visual assessment, and water testing of dozens of buildings via Bosun’s chair

Stephenson Engineering

Engineer-in-Training, Concrete Restoration
2016 – 2017, Richmond Hill, ON

- Performed reviews of ongoing concrete repair and construction, and waterproofing applications on residential and commercial properties (parking garages and podium decks)
- Performed reviews of concrete balconies and parking garages on residential and commercial properties, noting and compiling deficiencies in reports
- Contract administration per Canadian Construction Documents Committee (CCDC)

Picco Engineering

Engineer-in-Training, Structural
2013 – 2014, Woodbridge, ON

- Performed structural reviews of residential housing – private and semi-detached, townhouse blocks, and renovations/restorations – constructed with timber framing
- Designed timber and steel beams, steel lintels and base plates and concrete slabs, footings, and foundation walls according to design codes
- Accompanied and assisted supervisor with site inspections and created reports

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers Ontario (PEO), Member
- Ontario Building Envelope Council (OBEC), Member