CURRICULUM VITAE

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

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EXPERT SUMMARY

Mr. Brett Lessard is an Associate with the Civil & Structural Engineering and Building Science & Building Envelope groups at 30 Forensic Engineering. He graduated from 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 from heritage masonry to modern-day curtainwalls. In his current role, Mr. Lessard has developed expertise in conducting investigations involving wind losses, water losses, fire losses, and material failure, as well as analyses related to workmanship and standard of care.

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

ADDITIONAL COURSES

- Ventilation Training for Sloped and Flat Roofs (Ventilation Maximum, February 21, 2024)
- Ontario Building Code, Part 9 (Ontario Building Officials Association, April 2023)
- Building Code Act, General Legal Process and Powers and Duties (George Brown College, February 2023)
- Infrared Thermography – Level I, Certificate No. 221028-11 (Snell Group, October 2022)
- Roof Technology, Maintenance, and Inspection Training (George Wilson & Rick Pollard, January 2019)
- Construction Contract Administration (Construction Specifications Canada, May 2018)
- Principles of Construction Documentation (Construction Specifications Canada, November 2017)

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PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Civil & Structural Engineering, Building Science & Building Envelope
2022 – Present, Toronto, ON

- Perform site investigations, document reviews, research, and analyses pertaining to incident losses in buildings, such as wind losses, water losses, fire losses, and material failure, as well as claims regarding workmanship, standard of care, and compliance with relevant acts, regulations, and standards
- Prepare detailed drawings for repair/restoration of incident areas to pre-loss condition
- Focus on building envelope assemblies such as roof, wall, window, below-grade, 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
- Reviewed heritage masonry, fireproofing and firestopping, and moisture-related deterioration, in addition to typical building envelope construction materials and methodologies
- Performed 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
- Carried out 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
- Engineers Geoscientists Manitoba (EngGeoMB), Member
- Building Science Association of Ontario (BSAO) (f/k/a Ontario Building Envelope Council), Member
- International Institute of Building Enclosure Consultants (IIBEC), Member