

**Jason Flatt** | Senior Structural Engineer - Atlantic  
P.Eng., B.Sc.

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**Professional Summary:**



Jason Flatt, P.Eng. joined the Forensic Engineering team at EFI Global Canada as a Senior Structural Engineer with over 20 years of experience. Prior to joining EFI Global Canada, Jason worked as a Structural Engineer and Project Manager for various new residential projects and forensic engineering for fire, wind and foundation settlement due to water damage.

Over his many years of experience Jason has completed forensic engineering investigations to settle insurance claims; included stabilizing various structures from single family homes to multi-storey units using helical piles and or temporary shoring. Jason has designed various structures such as, log homes, and timber structures, residential homes in seismically active regions, and component engineering for items outside standard residential codes, such as tall walls and foundations, ICF homes and suspend concrete slabs.

He has valuable experience in working in a multidisciplinary team environment in the oil and gas sector and has been responsible for project management, inspections, client liaison, cost estimating, and budgeting including change orders reports, and evaluating proposals. Prior to working as an engineering, he worked as a 'wireline' engineer on oil wells where he worked with explosives, radiation and caustic chemicals.

**Project Experience:**

**Project Management:** Responsible for providing monthly cost reports, interfaced between field engineers and design engineers on project change notices and field change notices. Completed cost estimates, site inspections, quality assurance documentation, client review meetings, and turn-over packages on various oil sands projects.

**Post Event Inspections:** Completed structure inspections for insurance claims related to vehicle impacts, fire damage, wooden truss failures, and foundation testing for post fire events. Used of helical piles to stabilize settlement issues from water line breaks.

**Restoration and Repair Planning:** Provided restoration, shoring, repair, rehabilitation, and strengthening designs for damaged structures.

**Wood Design:** Provided design drawings and inspection services for light wood to heavy timber framing incorporating engineering codes (Part 4) within housing code (Part 9) for adding structural elements outside of the standard building code from small car ports to multiunit residential buildings in high snow load and seismically active areas.

**Concrete Design:** Provided design drawings and inspection services for concrete foundations, ICF walls in homes and commercial shops, and concrete suspended slabs.

**Wood Truss:** While working within a truss manufacturing plant; Provided inspection services for new commercial and multiunit residential construction. Provided repair details for existing damaged or over loaded trusses and beams. Provided design and inspection services for engineered wood floor systems, including I-joists, engineered beams, and floor trusses.

**Civil Infrastructure:** Inspected various civil projects involving sewer, water, storm lines, and new road construction.

### Project Overview:

- **Partial Roof Truss Failure** - Inspection, Root Cause assessment, and repair plan, of a partial roof truss failure of a 100'-0" by 60'-0" commercial building.
- **Multiunit Low-Income Housing** - Design of three multi-unit buildings, a four, eight and twelve plex structure between two to three storeys on concrete foundation. Worked with Architect during predesign and design phases to keep construction costs.
- **Impact & Fire** - Inspection of vehicle impact causing fire within a commercial building. Structural assessment included review of the fire damaged second level wood floor system and assessment of wood glulam roof beams and timber purlins as well as redesign of a destroyed steel HSS support post and assessment of masonry block walls during repair work.
- **Impact Assessment** - Inspection and assessment of vehicle impact of various building styles including light wood framing and glulam beams, as well as concrete, and masonry block walls.
- **Fire Assessment** - Inspection of fire damaged trusses and floor systems, stud walls as well as concrete, brick, and masonry walls. Assessing extents of damage and issuing repair details including designing temporary supports to facilitate repair activities.
- **Settlement Assessment** - Inspection of various water line breaks causing wash out of fine material under foundations. Co-ordinating with geotechnical engineers, helical pile specialists, and contractors to stabilize the structure to allow for repair.

### Professional Experience:

- **Horace Engineering Ltd.**  
(2019-2023)  
Engineering & Project Management
- **EHD Consulting Ltd.**  
(2015 - 2019):  
Engineering & Project Management

- **SeNa Constructors Inc.**  
(2011 – 2015)  
Engineering & Project Management
- **Dantel Enterprises**  
(2007 - 2010):  
Engineering & Project Management
- **MMM (Now WSP)**  
(2003 – 2007)  
Engineer in training

#### Education:

B. Eng., Co-op Civil Engineering Dalhousie, Halifax, NS, 2000  
B. Sc. Biology & Engineering Diploma Dalhousie, Halifax, NS, 1997

#### Affiliations:

- Association of Professional Engineers and Geoscientists of British Columbia
- Engineers Nova Scotia (formerly APENS – Association of Professional Engineers of Nova Scotia)
- Engineers Prince Edward Island – Pending, recently moved back to Nova Scotia