



Simon Nguyen

P.Eng., P.E., S.E.

Structural Engineer

OFFICE

Calgary

EMAIL

snguyen@ocig.com

CONTACT

1 (888) 624-3473, ext: 194
(587) 839-0741

Simon is a licensed professional engineer in Alberta, British Columbia, Manitoba, Saskatchewan, California and Illinois. He specializes in forensic structural investigations and the rehabilitation and restoration of existing structures. His experience also consists of new building design, tenant improvement, structural repair, structural remodeling, and special structural design. Simon is practiced in the analysis and design of all major structural materials: wood, steel, concrete, and masonry, and possesses sound knowledge of the Canadian and US building and design codes, including NBCC Part 4, the CSA standards, ASCE-7.

EDUCATION

University of Washington

Master of Science in Structural Engineering

Seattle, Washington, USA

2015

University of Washington

Bachelor of Science in Civil Engineering

Seattle, Washington, USA

2014

PROFESSIONAL REGISTRATION & LICENSING

- Structural Engineer (S.E.) with Illinois Department of Financial and Professional Regulation since 2021
- Professional Engineer (P.Eng.) with EGBC since 2021
- Profession Engineer (P.Eng.) with APEGA since 2020
- Professional Engineer (P.E.) with California State Board of Professional Engineers, Land Surveyors and Geologists since 2018

TECHNICAL AFFILIATIONS

- American Concrete Institute (ACI)
- Canadian Society for Civil Engineering (CSCE)
- The Masonry Society (TMS)
- Precast Concrete Institute (PCI)

PROFESSIONAL EXPERIENCE

Structural Engineer

Origin and Cause

Calgary, AB

August 2022 – Present

- 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

Intermediate Engineer

Entuitive Corp.

November 2020 – July 2022

- Provide structural engineering for multiple high-rise mixed-use projects
- Model floor plates in SAFE, RAM and provide detailing for concrete 2-way slabs and concrete filled deck floor system
- Model and perform lateral analysis for high-rise buildings in Etabs
- Perform structural design for typical building elements: foundations, walls, columns, beams, & slabs
- Provide markups and coordinate with technologists to produce construction documents for project submittal
- Review architectural, electrical, mechanical and structural drawings
- Help junior staffs with general structural engineering knowledge

Project Engineer

AUE Inc.

December 2016 – October 2020

- Perform framing layouts, structural calculations, and detailing for commercial projects
- Directly manage projects & clients from start to finish
- Assemble and coordinate construction documents for project submittal
- Perform construction administrative works including shop drawings review, report writing, site visit, and resolution for field construction problems
- Perform survey for existing structures
- Review architectural, electrical, mechanical and structural drawings
- Mentor junior staffs with structural designs to ensure project deliverables are met

Structural Design

Peterson Structural Engineers Inc.

March 2016 – November 2016

- Perform framing layouts, structural calculations, and detailing for residential structures, & special structure system
- Perform construction administrative works including shop drawings review, report writing and site visits

- Conduct forensic studies
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SKILLS & EXPERTISE

- An engineer with 6 years of structural design experience on AEC projects across the United States and Canada
 - Experienced in new building design, tenant improvement, structural remodeling, and special structure
 - Experienced with both Canadian and US building codes and standards: NBCC, ASCE-7, CSA A23.3, ACI318, CSA S16, AISC 360, AISC 314, NDS, TMS402
 - Possesses a strong working knowledge of engineering mechanics and seismic design
 - Proficient with several materials and types of constructions: wood, steel, concrete, and CMU
 - Proficient with several software packages: SAFE, Etabs, RAM, RISA 2D & 3D, SAP 2000, AutoCad, Revit, Bluebeam, & Microsoft Office
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REPRESENTATIVE PROJECTS

Structural Investigation and Repair

- Damage Assessment and Repair Design for various residential structures throughout Western Provinces of Canada
- Investigation of the cause of a CMU wall collapse in Leduc, AB
- Investigation of the cause of a building collapse in Cardston, AB
- Investigation of the cause of a park trailer flip-over in Little Bow, AB
- Investigation of ground vibration effects on residential homes due to pipeline construction in BC

New Building Design

- 15-story residential concrete tower @ Stadium Shopping Centre, Calgary, AB
- 31-story & 11-story mixed-use concrete towers @ 300 The East Mall, Toronto, ON
- 21-story mixed-use concrete tower @ Rideau Centre, Ottawa, ON
- 250,000 sq ft Amazon Data Center in Boardman, OR
- 5000 sq ft Bridle Trails Retail Building @ NE 70th PL and 132nd Ave. NE, Kirkland, WA

Building Remodeling

- Timberland Bank Remodel @ 117 N Broadway Street, Aberdeen, WA
- Coffman Building Remodel @ Port of South Whidbey 819 Camano Ave., Langley, WA

Special Structure System

- Sallal Pipeline Removal @ Cedar River Watershed 19901 Cedar Falls Road SE, North Bend, WA
- Horse Exercisers – Several Locations in Florida

Store Front Design

- Burberry Store @ South Coast Plaza 3333 Bristol Street, Costa Mesa, CA
- Tiffany & Co. Store @ American Dream Mall East Rutherford, NJ
- Dolce & Gabbana Store @ American Dream Mall East Rutherford, NJ
- Nike Store @ Brentwood Town Centre 4567 Lougheed Hwy, Burnaby, BC
- Longchamp Store @ Yorkdale Shopping Centre 3401 Dufferin Street, Toronto, ON

Tenant Improvement

- Office TI: Google SLU B-31 TI in Seattle, WA
- Retail TI: AT&T, T-Mobile, Chanel, Tiffany, Burberry, Dolce & Gabbana, Gucci, Coach, Lacoste, Amazon Bookstore, REI, Casper
- Restaurant TI: Mod Pizza, Starbucks
- Industrial TI: Tesla Stores and Service Centers, Lyft Service Centers