Shuxuan Li, MScE, EIT

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Profile

- Master of Science in Civil Engineering with a specialty in Structural Engineering
- Skilled user of SAP2000, ETABS, AutoCAD, ABAQUS, FEMtools, MATLAB, Microsoft Office
- Passionate about Structural Engineering. Excellent verbal, written, graphic, and presentation skills. Positive team player with competent interpersonal skills. Detail oriented and precise
- Engineer in Training (EIT). Student member of Canadian Society for Civil Engineering (CSCE) and American Society of Civil Engineers (ASCE)
- Fluent in oral and written English and Mandarin
- Willing to relocate at own expense and travel as business requires

Education

Master of Science in Engineering, Civil Engineering, University of New Brunswick 09/2016 - 10/2018 (UNB), Fredericton, New Brunswick (NB)

- Research Area: Structural Damage Identification Using Vibration-Based Model Updating. Supervised by Dr. Kaveh Arjomandi
- Specialty Courses: Structural Engineering, Prestressed Concrete, Structural Dynamics, Random Vibration, Reinforced Concrete Design II, Operational Modal Analysis

Diploma in Technology Management and Entrepreneurship, UNB, Fredericton, NB 01/2017 - 12/2017

• Course Highlight: Managing Engineering & Information Technology Projects, Quality Management, Entrepreneurial Finance

Bachelor of Science in Civil Engineering, UNB, Fredericton, NB 01/2012 - 04/2016

- Specialty Courses: Structural Analysis, Structural Steel Design, Structural Wood Design, Reinforced Concrete Design
- Award: Academic Excellence Scholarship

Work and Related Project Experience

Research Assistant, UNB, Fredericton, NB

09/2016 - 10/2018

12/2013

- Designed primary structural components of a full-scale steel building with consideration of live, dead, wind and seismic load using Handbook of Steel Construction and National Building Code of Canada
- Applied pi theorem to the full-scale building based on similitude law for physical small-scale model design. Created detailed design with full sets of AutoCAD drawing, ABAQUS and SAP2000 finite element model
- Prepared material take off list and participated in the purchasing process
- Designed shake table mechanism and constructed the seven-storey aluminum small-scale building on the shake table
- Trained to use a variety of mechanical equipment for physical model construction
- Conducted vibration tests on the small-scale model and applied operational modal analysis as well as comparing experimental and finite element analysis results

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- Performed model updating technique to improve the finite element model for the use of damage detection application
- Gave presentations every two months to the research group to report progress

Teaching Assistant, UNB, Fredericton, NB

01/2017 - 04/1017

- Created experimental laboratory materials for Structural Analysis Course, devised solutions for assignments and for computational laboratory tutorials
- Instructed computational laboratory for 46 students and assisted in solving tutorial questions
- Graded assignments, provided feedback to students

Group Leader, UNB, Fredericton, NB

09/2016 - 12/2016

- With group, designed a three-storey reinforced concrete office building with summarized design loads and detailed design of slabs, beams, columns, and footings
- As a group leader, arranged group meetings, performed design check before the presentation

Senior Student Participant, Government of New Brunswick, Oromocto, NB

09/2015 - 12/2015

- Worked with eight-member staff and student team to redesign the internal and external layout of Arc-en-Ciel Primary School using federal guidelines to solve over capacity issue
- Finalized group deliverables and prepared documents for client meetings
- Presented project and poster to up to 80 academic and government professionals at Fredericton Convention Centre

Intern, Tianjin Architecture Design Institute, Tianjin, China

06/2015 - 08/2015

- Learned using ETABS for structural design and analysis
- Assisted in preparation of professional AutoCAD drawings
- Visited construction site to meet with the contractor to discuss progress with the professional engineering team

Vice President of External Relations, Chinese Students and Scholars Association (CSSA), Fredericton, New Brunswick

01/2015 - 01/2016

- Organized week-long orientation for new Chinese students
- Approached various business owners and sought sponsorship for a series of events to help immigrant students adjust to Canadian life
- Managed association staff meetings and planned detailed schedule for events

Activities

- Volunteer and Paper Reviewer, CSCE 2018 Annual Conference
- Member, UNB Graduate Student Association Summer Softball Team
- Participant, New Brunswick Lung Association Bike for Breath Event
- Champion, CSSA Annual Karaoke Competition
- Ice Skater, Skier, Mountain, and Road Biker