

**S Claire Yuan, P Eng**
CURRICULUM VITAE

Claire Yuan is a professional engineer registered in British Columbia and Alberta. Claire holds a Bachelor of Science Degree in Chemical Engineering Co-op Program with Distinction from the University of Alberta. She is pursuing a MSc degree in Mechanical Engineering from the University of Waterloo, specializing in Fire Engineering. Her research is focused on fire risk analysis and performance-based design. Claire implements performance-based fire engineering analysis and assists in the development of Alternative Solutions and Building Code compliance. Claire is one of the professional engineers responsible for the development of the research and technical analysis of Encapsulation Mass Timber Construction Char Rate study funded by the Green Construction through Wood Program at Natural Resources Canada. She is also involved in the ongoing Mass Timber research project.

SPECIALIZED EXPERTISE

- Heat transfer analysis
- Evacuation / egress analysis
- Fire modelling (CFD)
- Atrium / interconnected floor space design
- Mass timber construction
- Risk analysis

PROFESSIONAL EXPERIENCE

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| June 2016 – Present | GHL CONSULTANTS LTD , Building Code Consultants and Fire Science Engineers
<i>Professional Engineer</i> |
| May – December 2015 | Pembina Pipeline Corp , Transportation, midstream and Gas Service Provider
<i>Project Engineer Coop</i> |
| September – December 2014 | University of Alberta , thermal dynamics on Biomedical research
<i>Dean's Research Simulator Student</i> |
| May – August 2014 | ConocoPhillips Canada , Oil and Gas E&P Company
<i>Field Operation Student</i> |
| May – December 2013 | Teck Resources Ltd , Resource Company
<i>Process Engineering Student</i> |

EDUCATION

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| September 2011 – June 2016 | Bachelor of Science (BSc), Chemical Engineering Coop Program with Distinction
University of Alberta, Edmonton, AB
5-year Undergraduate Degree Program (Co-op) |
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RELATED COURSES

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| 2016 | Building Code – Part 3 Course
British Columbia Institute of Technology, Vancouver BC |
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MEMBERSHIPS

- Engineers and Geoscientists BC
- Association of Professional Engineers and Geoscientists of Alberta (APEGA)