

# Jennifer Fong

Chemical Engineering Graduate Candidate (April 2016) – University of Waterloo

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## Highlights of Qualifications:

- Exceptional analytical skills combined with strong project management acumen gained through Honours Chemical Engineering with minor in Management Sciences and diverse co-op work experiences
- Experience with Lean manufacturing and Six Sigma practices
- Comprehensive knowledge of project management documentation preparation, engineering drawings and measurement systems analysis techniques
- Excellent application of critical analysis and problem-solving skills to resolve production conflicts as well as every day issues
- Proven ability to work in fast paced and rapidly changing environments
- Functional in French and German

## Technical Skills:

- Strong computer programming skills including experience with HTML, C#, MATLAB, SQL and COMSOL
  - Experience with Aspen Plus, AutoCAD 2006, DraftSight and SolidWorks
  - Extensive lab experience including work with various reactors (packed bed, tubular flow and batch), melt flow rate machines, voltmeters, oscilloscopes, tensile tests, Rockwell hardness tests, spectrophotometers
  - Proficient in Microsoft Office Suite (Excel, Word, Project, Power Point, Visio)
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## Work Experience:

### ***Manufacturing Engineer/Process Improvement Co-op, Sabic IP, Cobourg, ON***

***Sept '14 – Dec '14***

- Applied continuous improvement strategies such as Lean Six Sigma to the manufacture of resin pellets
- Planned and managed the reorganization of raw material storage facility based on historical usage of raw materials
- Conducted investigations on manufacturing lines to determine root causes of performance issues such as attaining standardized colours and melt flow viscosities
- Performed individual trials on manufacturing lines to develop necessary running conditions for new colours and physical properties
- Actively participated in quality control for colour and physical properties of resin pellets
- Performed Gage R&R study on Melt Viscosity Rate and Melt Flow Rate testing, concluding operator-to-operator difference was unacceptable, resulting in more extensive training modules for QC appraisers

### ***Project Engineering Student (Field Based) Co-op, Cenovus Energy Inc, Cold Lake, AB***

***May '13 – Aug '13***

- Led 3 engineering projects including installation of Enviroboxes onto truck-out connections for chemical tanks on site
- Conducted on-site investigations of construction projects, including field verification of As-Built Piping and Instrumentation Drawings, Datasheets and Line Lists

- Performed value analysis on multiple future projects
- Maintained a fleet of vehicles consisting of regular inspections and maintenance

***Project Management Co-op, Hibar Systems Limited, Richmond Hill, ON***

*Sept '12 – Dec '12*

- Developed management skills by assisting in managing several projects of the production of custom engineered and automated systems
  - Strengthened analytical and communication skills through working with local and international customers to manage customer requirements and changes
  - Devised schedules, budgets and punch lists for 11 projects ranging in length of 3 weeks to 18 months
  - Worked closely with engineering, manufacturing, and mechanical and electrical teams to coordinate projects, ensure timely completion of tasks and quality control
  - Created, edited and revised a variety of documentation such as Installation Manuals, Job Aids, Safety Maps, and SOPs
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## **Education:**

**Candidate for Bachelor of Applied Science**, Honours Chemical Engineering, Co-op Program, Minor in Management Science, University of Waterloo, Waterloo, ON, September 2010-present

**Senior Project:** Currently designing, verifying and implementing a nanobrewery on campus for students to experiment with process controls

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## **About Me:**

- Completed second year Management Engineering and then transferred to Chemical Engineering to obtain a background in technical sciences, specifically with an interest in food and material sciences
- **Travel** - I have travelled to over 30 countries including countries in South America, Middle East, South East Asia and Europe
- **DIY projects** – I enjoy a wide range of DIY projects including making my own wine and beer, programming, home renovations and car repairs
- **Sports and Outdoors** – I love playing sports including soccer, golf, and skiing. I also enjoy hiking, camping and gardening. In August 2015 I completed a 6 day backpacking trip through the Adirondack mountain range and one day hope to hike the Pacific Crest Trail over 4 months