# Highlights of Qualifications

* Enrolled in the University of Toronto's **Chemical Engineering** program (level 4, GPA 4.00/4.00)
* Experienced in **problem solving and analytical skills** as demonstrated by proficiency in the Chemical Engineering curriculum
* Proficient in **planning, prioritizing and organizational skills** shown through strong commitment to school, and a 14-month intensive internship placement at TransCanada’s pipeline integrity department working with a multidisciplinary team of 27 engineers to manage a yearly budget of $100M
* Strong **leadership skills and ability to work on a team**, demonstrated through supervising and mentoring while acting as a business advisor in Junior Achievement and Sponsorship Director of the University of Toronto Engineering Competitions

# Education

## **Bachelor of Applied Science** Sep 2013 - Apr 2018

## Chemical Engineering

## University of Toronto, St. George Campus, Toronto, Ontario

**Scholarships**

* R.W. Missen Memorial Prize in Thermodynamics (2016)
* Charles Edwin Trim Scholarship (2015)

**Relevant Project and Coursework**

Design Project: Hydrogenation of Benzene Plant Design

* Developed knowhow to **design** an isothermal fixed bed catalytic reactor
* Applied **process engineering skills** to size distillation columns, flash separators and heat exchangers using numerical methods on Excel and AspenPlus
* Developed **written communication skills** upon completion of 50-page report which included PFD's, P&ID's and HAZOP analysis and achieved a grade of 96/100 upon submission of the project

# Work Experience

## **Pipeline Integrity Intern** May 2016 - Jun 2017

## TransCanada Pipelines Ltd.

## 450 1st Street SW, Calgary, Alberta

* Conducted external corrosion **risk assessment** of high pressure gas piping in all Canadian facilities by considering consequence and probability
* **Extracted information** from plot plans, P&IDs, piping isometrics, and alignment drawings to aid the analysis of in-line inspection data
* Developed **written communication skills** upon completion of over 95 engineering justification documents detailing the scope of excavation project for budget approval, internal and external audit
* Demonstrated strong **discipline and ability to work under pressure** when providing maintenance services balancing multiple stakeholder’s interest (internal business units, regulatory department and external vendors) in the execution of 70 inspection projects and 200 excavation projects

# Extracurricular Activities

## **Program Advisor** Sep 2016 - Apr 2017

## Junior Achievement Company Program, Southern Alberta

* Acted as a **business advisor, role model** and supervisor to a group of 20 high school students
* Developed **strong leadership and organizational skills** through the coordination of the student's projects
* Assisted students in developing an understanding of **entrepreneurship** through an 18-week business venture program

## **Sponsorship Director** May 2015 - Apr 2016

## University of Toronto Engineering Competitions (UTEK)

* **Developed and maintained sponsorship relationships** with industry leaders
* Demonstrated **planning and execution skills** in two-day event hosting 7 competition categories with over 600 students and professionals
* **Strong work ethic and perseverance** in successfully raising over $7500 in monetary funding, surpassing previous years by 50%

## **Sponsorship Director** May 2014 - Apr 2015

## Chinese Student Engineering Association (CESA)

* Single-handedly raised $400 in sponsorship from local businesses as well as various discount sponsorships using door to door selling techniques

# Skills

## **Software**

* Experience in **ANSYS CFX** and **FLUENT** through modelling of a hydro turbine and rocket nozzle cooling channels for 4th year thesis project
* Trained in **AutoCAD** through completion of CADD training at George Brown College
* Experience in using **AspenPlus** and **AspenPlus Dynamics** through utilization in 4th year design course
* Proficient in **Microsoft Office tools, Excel VBA, MATLAB** and **SIMULINK**
* Proficient in **SAP** in a professional setting

## **Communication**

* Environmental Assessment Consultancy Competition (2016)
  + Designed a dynamic soil sampling strategy for a retired oil refinery site
  + Rewarded **1st place out of 35 teams** after pitching the project proposal to a panel of professional engineer
* Intermediate proficiency in French and Mandarin language