

DEREK FONG

Address | 44 St. Joseph Street Apt. 2106
Toronto, ON M4Y 1J9, Canada

Contact | derekgfong@gmail.com
+1 647-825-5166
linkedin.com/in/derekgfong/

EXPERIENCE

**University of Toronto
Combustion Research Lab**
September 2016 - Present
Toronto

Graduate Research Assistant

- Built and programmed an experimental facility that measures 11 wood stove operating parameters using electrical instrumentation connected to a data-acquisition system
- Managed an entire project life cycle; from the experimental design to the sourcing of equipment and the coordination between the university and client
- Created wood stove particulate emission control strategies by conducting a detailed mass & energy balance

Apple Retail
October 2015 - July 2016
Calgary

Technical Specialist

- Resolved over 1000 mobile device issues by communicating technical concepts in an easy to understand manner
- Had the highest number of business introductions during the month of February by seamlessly integrating Apple's business solutions into customer conversations

**Qatar Fuel Additives
Company (QAFAC)**
May 2014 - August 2014
Doha, Qatar

Process Engineering Intern

- Wrote a training manual detailing the process, design, and technology of a 3000 ton/day methanol plant by studying technical diagrams and consulting with professionals from across disciplines
- Communicated across vastly different cultures and professional backgrounds to achieve the project goals and to build strong working relationships

Teine Energy
May 2012 - August 2012
Calgary

Reservoir Engineering Intern

- Determined which oil-pool in Saskatchewan had the most future development potential by analyzing data collected from type-curves, production data, decline analysis, and secondary development history

EXTRACURRICULAR

**Engineers Without
Borders Canada**
January 2016 - Present
Toronto

Vice President of Operations, UofT Chapter

- Global Development Case Competition: led an aggressive online marketing campaign, resulting in a 100% increase in registration over the previous year and recruited a panel of 10 professionals to be judges
- Held a team of 15 chapter executives accountable for progress and built a strong chapter culture by leading monthly meetings and organizing a three-day summer retreat

**Formula UBC
Race Team**
September 2013- May 2015
Vancouver

Aerodynamics Team Member

- Used computer-aided design, 3D printing, and computational fluid dynamics simulations to design and test a diffuser panel for the 2014 race car
- Gained hands-on experience with using carbon-fibre layup techniques by working in a team to create sidepod panels

EDUCATION

MASc, Mechanical Engineering

University of Toronto

2016-Present

Focus: thermodynamics, heat & mass transfer, combustion, engines

BASc, Chemical Engineering

University of British Columbia

2010-2015

Focus: process engineering

SKILLS

Microsoft Office
MATLAB/Simulink
Python
LabVIEW
SolidWorks
CATIA V5
ANSYS CFX
Aspen Plus/ HYSYS

INTERESTS

Transportation and tech trends
Street and portrait photography
Long-distance running and hiking
Global development