

Akshay Sapra

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EDUCATION

Bachelor of Applied Science, Mechanical Engineering Minor in Computer Science

September 2013 – Present

University of British Columbia - 85% GPA
Expected Graduation - May 2018

Université de Montréal

July 2015 – August 2015

Introductory French – 84% GPA

General First Year Engineering

September 2012 – June 2013

University of Regina - 91% GPA

RELEVANT EXPERIENCE

Syncrude Canada Ltd.

January 2016 – April 2016

Mechanical Engineering – Equipment & Reliability

- Helped maintenance engineers provide technical support for repair and maintenance of equipment while solving day-to-day issues in a large maintenance shop that served the entire plant
- Referred to Operation & Maintenance Manuals, completed basic engineering calculations, as-Built CADD drawings, performed TDocs drawing searches and manipulation, collected field data to assist engineers and technologists, wrote memorandum of concerns, alternatives and recommendations for small jobs, prepared scopes of work for small jobs
- Investigated equipment malfunctions and breakdowns, worked as part of a team to carry out design work for safety or efficiency improvements and conducted field studies to determine accuracy of existing records

Lafarge North America

August 2014 – November 2014

Quality Control

- Assisted in the production and pouring of high quality concrete that met company specifications within 5% by performing quality and analytical tests of product as per quality requirements
- Calibrated and ensured that process testing equipment is operating within designated parameters
- Utilized efficient and concise communication with plant operators, customers, and site superintendents
- Maintained a working knowledge of safety policies and regulations to ensure duties of self and others are performed in a safe and efficient manner.

University of British Columbia Engineering

May 2014 – August 2014

Computational Fluid Dynamics (CFD) Research

- Used advanced CFD software packages to simulate a variety of engineering-relevant fluid flows and compare the performances of these software to each other, summarizing the results in final reports
- Performed a literature search of scientific/engineering literature to obtain benchmark data for the selected flows to be used to validate the results of the CFD simulations
- Learned how the principles of fluid mechanics, applied math, and computing learned in academic courses are used in the setup and analysis of fluid-flow simulations

TECHNICAL PROJECTS

Great Northern Concrete Toboggan Race

October 2013 – Present

- Involved in a team effort of designing and constructing a toboggan with a metal frame and a running surface made completely out of concrete to race it down a steep snow-covered hill. The sled must weigh less than 350 pounds (160 kg), have a working braking system, and be fitted with a roll bar to protect its five passengers
- Completed Solid Edge drawings of the steering system and constructed it, contributing to the overall construction of a fully functional toboggan
- Wrote the steering section of the technical report, developing an in depth knowledge of applicable report writing in a time restrictive environment
- In 2014, our project placed 2nd overall out of several universities across Canada

Hovercraft

February 2014 – April 2014

- Collaborated with group members to design and construct an innovative inflatable hovercraft capable of carrying 4.4kg and finishing an obstacle course in 63 seconds
- Lead my group members in writing preliminary and final design reports, communicating results throughout the process
- Researched and coordinated with group members the many design alternatives

VOLUNTEER

Engineering Society at UBC

March 2015 – Present

Vice President Social

- Led a team of committee members to organize a variety of social events, as approved by Council, to promote student involvement within the Society
- Responsible for day to day decision making and oversight of the society in accordance with the Bylaws and Policy Manual
- Liaised with the UBCSUO, Course Unions, and other relevant organizations at the University regarding upcoming events of interest

University of Regina

September 2012 – July 2013

Student Ambassador

- Coordinated student orientation events and meetings which guided and helped new students become more relaxed and calm
- Gave campus tours, lead icebreakers, spoke at events, and was responsible for tasks such as event registration tables, parking attendants, set up and clean up

AWARDS

CN Canadian Scholarship (\$3000)	2015
Dean's Honor list	2012–2015
Deputy Vice Chancellor Scholarship	2014
UBC Chancellors Scholar	2013
Hustle Award (most committed player in soccer team)	2012
University of Regina Entrance Scholarship	2012
Principal's List with Honors (Rutland Senior)	2011–2012

EXTRACURRICULAR ACTIVITIES

- Founder of an on campus social club that hosts events for students
 - Active president for one academic term (2014–2015)
 - Started the club from scratch, hired club executives
 - Led club executives in weekly meetings to organize events for students.
- Involved in many sports and clubs, such as basketball, volleyball, toastmasters club, aerospace club
- Have represented my faculty as a delegate in several WESST and CFES national conferences
- Routinely design and learn programs in Matlab, C++, Java, Linux systems