Cheryl Lau

3A Chemical Engineering

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29 Waymount Ave.
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SKILLS SUMMARY

- Experienced with Linux/Unix interface and basic Bash scripting
- Proficient at data manipulation and visualization in R and MATLAB
- Rudimentary knowledge of Python scripting
- Experienced with ANSYS computational fluid dynamics (CFD) and CAD software
- Advanced laboratory skills in experimentation, chemical characterization, and results analysis through a Directed Research Project
- Proficient at Microsoft Word, Excel, PowerPoint, Outlook; working knowledge of chemical engineering analysis with MATLAB and Aspen Plus
- Certified in WHMIS, OHSA, and first aid courses
- Ability to adapt quickly and learn independently
- Exemplary project and team management skills

WORK EXPERIENCE

BioNanoTech Data Analyst, Ontario Institute for Cancer Research, Toronto, ON, Sept 2014 – Dec 2014

- Managed worldwide crowd-sourced competition: administered weekly meetings and effectively delegated tasks to project team members
- Provided ongoing support as liaison between competition coordinators and contestants
- Analyzed next-generation DNA sequencing data using R
- Performed computational validation of cancer mutation-detection algorithms

Electrical Engineering Design Developmental Student, AMEC NSS, Toronto, ON, Jan 2014 – May 2014

- Prepared electrical and instrumentation and control design change papers for Bruce Power and OPG nuclear power plants
- Maintained engineering project lifecycles in accordance with client procedures
- Coordinated project risk assessment tasks with appropriate stakeholders
- Compiled information to write and edit operational experience reports

Technical Engineering Writer, ANSYS Canada Ltd., Waterloo, ON, Apr 2013 – Aug 2013

- Examined and resolved defects in documentation for ANSYS software
- Improved and updated tutorials based on new software features
- Collaborated with subject matter experts to improve technical documentation

EDUCATION

Candidate for Bachelor of Applied Science, Honours Chemical Engineering, University of Waterloo, ON, Sept 2012 – Present

Distinctions: Dean's Honours List, Fall 2012/Fall 2013/Spring 2014

Relevant Work: Water Purification with Bio-Renewable Nanomaterials**,** Directed Research Project, Sept 2013 - Dec 2013

- Synthesized renewable nanomaterials as an adsorbent for water purification
- Performed chemical characterization of the polymers in question
- Optimized capability of nanomaterial by adjusting synthesis process

ACTIVITIES/ MEMBERSHIPS

Engineering Case Competition, University of Waterloo, July 2014

- Researched and analyzed environmental impacts of Canadian tar sands industry
- Designed feasible action plan to mitigate environmental impacts while optimizing socioeconomic effects
- Presented design plans with a high degree of professionalism

Chief Advocacy Representative, Engineers Without Borders University of Waterloo Chapter, Sept 2013 – Dec 2013

- Advocate policy reforms regarding global poverty to federal MP's
- Apply engineering design process to find potential solutions for real-world issues
- Collaborate with other universities, government officials, and representatives from Engineers Without Borders national office to promote local learning and action

VOLUNTEER EXPERIENCE

Journalist, North American Young Generation in Nuclear Conference, Toronto, ON, May 2014

- Recorded speaker sessions, interviewed nuclear industry professionals, and wrote conclusive conference report