# Alvin Cheung

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## OBJECTIVE:

Prospective engineer in training seeking to apply versatile knowledge of both process engineering and biological designs towards industry.

## EDUCATION:

**BAS in Chemical and Biological Engineering**, Biological Specialization — April 2019
The University of British Columbia, Vancouver
GPA: 3.5/4.33 | 81.4% Average

## TECHNICAL SKILLS:

Hands on: Metallurgy | Electrospinning | Rheometry | HPLC | Bioreactor Operation | Pulp and paper pilot plant processing

Computer: Aspen Plus/HYSYS | Excel VBA | AutoCAD | MATLAB | C | Python | Adobe Photoshop | Microsoft Office Suite

Other: WHMIS | Emergency First Aid for Industry | Level A CPR/AED | Chem. & Bio. Lab Safety Certified

## WORK EXPERIENCE:

**Barrick Gold – AuTec: Vancouver Technology Center** — Jan 2018 – Aug 2018
*Metallurgical Technician*

- Carried out self directed research and optimization of using cyanide alternatives such as halides and amino acids for low grade gold extraction.
- Developed experimental methods for the analysis of glycine, triiodide and iodine on UV-Vis spectrophotometry.
- Performed gold extraction and sulfur generation experiments in a 5L bioreactor vessel at highly corrosive conditions.
- Analyzed experimental data and wrote proposals, progress, and final technical reports to help with the decision taking for the next steps of the project.

**Fibria Innovations** — May 2016 – Dec 2016
*Industrial Research Assistant*

- Performed routine chemical analysis of sugars, ethanol, organic acids, ash content, and klason, following standard analytical procedures with the use of HPLC and GC.
- Extracted and purified products from raw wood mass for processing lignin pellets then analyzed storage and loss modulus using rheometer.
- Incubated solutions then carried out electrospinning to further create leading edge carbon nano-fibre technology.
- Researched and developed innovative products and further helped design upscale processes.

## EXTRACURRICULAR:

**UBC Mentorship Program** — Sep 2018 – Present
*Upper Year Mentor*

- Provide guidance to younger students for both academic career and post graduation prospectives.
- Help connect students with professors and industry professionals.

**UBC Biomod Student Team** — Sep 2015 – Oct 2016
*Website Design and Management*

- Designed, organized, and implemented team website for easy navigation and access to information required for competition.
- Collaborated with team members across subgroups to ensure an efficient flow of information to publish onto the website.

## NOTABLE HONORS:

- Canfor Corporation Scholarship. — 2019
- Graham Somerville Undergrad Scholarship. — 2019
- Ranked top 10% academically within the Faculty of Applied Science in two school years. — Sep 2017 – May 2018, Sep 2016 – May 2017