Alvin Cheung

BAS, Chemical EIT

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OBJECTIVE:

Engineer in training looking to broaden their skillset and branch into more challenging fields of interest.

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 | Pilot plant operations

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

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

WORK EXPERIENCE:

Kemetco Research – Contract Research and Testing Labs — May 2019 - Present
Chemical Engineer In Training

- Design, build, and operate industry leading pilot-plant scale metallurgical equipment for new and innovative processes.
- Provide crucial analytical solutions during developing projects to ensure that results are well justified and remain in scope.
- Work under pressure and maintain focus in hazardous environments for twelve hour shifts during a research campaign.
- Interpret large sets of data and communicate findings for internal and external reports which are used to further optimize operation processes.

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.

EXTRACURRICULAR:

Home Network and Server development — April 2020 – August 2020
Self Driven Project

- Familiarized myself with Linux environment to transform old computer to a home, web, and game server running both Nextcloud and Open Media Vault.
- Set up an optimized home internet network to accompany up to 15 users using a managed switch, mesh Wi-Fi, VLAN, and L2 Functions.

UBC Mentorship Program — Sep 2018 – April 2019
Upper Year Mentor

- Provided guidance to younger students for both academic career and post graduation prospectives.
- Helped connect students with professors and industry professionals to encourage networking.

NOTABLE HONORS:

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