

Braden Geddes Skelding

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SKILLS SUMMARY

- Laboratory experience within an academic setting
- Familiarity working with GC-FID, ¹H-NMR, FTIR and other analytical instruments
- Capable of working on a team as well as able to display a high level of self-initiative
- Proficient in Microsoft Office (Word, Excel, Powerpoint)
- Languages: English (1st language); Russian (Conversational)

EDUCATION

Bachelor of Science, Chemistry

University of Northern British Columbia, Prince George, BC

- 2011 - 2016
- GPA 3.36

ACADEMIC LABORATORY EXPERIENCE

General Chemistry 2 Semesters

- Laboratory courses which introduced common techniques associated with analytical, organic, inorganic and physical chemistry

Organic Chemistry 2 Semesters

- Produced organic compounds through a variety of syntheses
- Isolated and purified molecules from natural products
- Separated mixtures through column chromatography, distillation and gravimetric filtration
- Analyzed products by polarimetry, TLC, UV-Vis, ¹H-NMR and FTIR

Analytical Chemistry 2 Semesters

- Quantified analytes by gravimetric analysis, GC-FID, column chromatography and UV-Vis
- Identified unknown compounds through ¹H-NMR, ¹³C-NMR, COSY, DEPT-135

Inorganic Chemistry 1 Semester

- Synthesized and purified organometallic complexes
- Performed analysis of products through gravimetric filtration, UV-Vis spectroscopy and polarimetry

Physical Chemistry 1 Semester

- Calculated physical constants of compounds through calorimetry, distillation, conductivity measurements, optical rotation and gas analysis by GC-FID
- Interpretation of FTIR and UV-Vis spectra to calculate spectroscopic constants of gasses

Independent Research 2 Semesters

- Synthesized switchable ionic liquids and measured their efficiency in isolating organic compounds from contaminated water by GC-FID
- Quantified metal and VOC content in electronic cigarette vapour by ICP-MS and GC-FID

EMPLOYMENT

Manager/Driver - Hub City Courier - Nanaimo, BC 07/2010 - 07/2011

- Established a courier company which delivered mail between government offices throughout the city of Nanaimo
- Required adherence to a strict schedule, a strong attention to detail and a high degree of reliability