

SIEGFRIED PESCHKE

[My Website](#)

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EDUCATION

University of Calgary
Bachelor of Science (Physics)
· Program GPA: 3.56
· Overall GPA: 3.30

STRENGTHS & SKILLS

· Research & Data Analysis	· Latex	· Java
· Calculus & Statistics	· AutoIT	· JavaScript
· Analytical Thinking	· Python	· TypeScript
· Technical Writing	· HTML	· Angular
· Strong Collaborator	· CSS	· Node.js

WORK EXPERIENCE

Rabbit Hill Snow Resort, Edmonton AB
Lifts Operator & Snowmaker

Nov 2021-Apr 2022

- Ensured the safe operation and use of ski lifts while catering to positive guest experiences.
- Operate a track utility vehicle to access and maintain snow blowers across the hill.

Midwest Pipelines, Dawson Creek BC
General Labour

May 2021-Nov 2021

- Performed a range of labour duties for a tie in crew whose main goal was to boom sections of pipe into a ditch, setup welders. Additionally participated in dirt backfill and cleanup duties.

University of Calgary Isotope Laboratory, Calgary AB
Senior Thesis & Product Developer

Jan 2020 - Sept 2020

- Improved experimental procedure of lead isotope analysis by adjusting ion exchange procedure which resulted in 2726% reduction of lead content in control samples.
- Successfully built a thermostat; raspberry pi based measurement unit with a full GUI.

PROJECTS

Angular Projects

- Designed a Book Library analogous to Netflix. Further implemented basic filters to search through the 1000 book dataset and the ability to find each selection on Amazon.
- Built a custom To Do List component combined with a third-party Calendar component to make a fully integrated Agenda application.

Atmospheric Monitoring System

- A raspberry pi unit is utilized in conjunction with a barometer and particle counter to measure temperature, pressure, humidity and particle counts per mass bin.
- A server utilizing TCP sockets was built in python alongside a python GUI application to both display and manipulate data using filters and trend setting.

Determining Lead Isotopic Composition in Biological Materials

- Optimize experimental procedure for determining lead isotopic amounts of the stable lead isotopes ^{204}Pb , ^{206}Pb , ^{207}Pb , ^{208}Pb found in biological materials.
- Chemical reduction of the biological matrix followed by ion exchange for lead isotope isolation.
- Thermal ionization mass spectrometry for further analysis of isotopic composition.