SIEGFRIED PESCHKE

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EDUCATION

STRENGTHS & SKILLS

University of Calgary	· Research & Data Analysis	\cdot Latex	· Java
Bachelor of Science (Physics)	· Calculus & Statistics	\cdot AutoIT	· JavaScript
· Program GPA: 3.56 · Overall GPA: 3.30	· Analytical Thinking · Technical Writing	· Python · HTML	· TypeScript · Angular
Overan GIA. 5.50	· Strong Collaborator	$\cdot \text{ CSS}$	\cdot 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

May 2021-Nov 2021

 $General\ Labour$

· 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 ${\bf AB}$

Jan 2020 - Sept 2020

 $Senior\ Thesis\ {\it \& Product\ Developer}$

- · 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

Personal Coding Projects

- · Designed a Book Library analogous to Netflix utilizing PrimeNG. Further implemented basic filters to search through the 1000 book dataset and the ability to find each selection on Amazon.
- · Built a To Do List combined with a Calendar for a fully integrated Agenda application.
- · Created a portfolio website along with basic games including Tic Tac Toe, 2048, War and BlackJack to solidify and showcase HTML, CSS and JavaScript skills.

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

- \cdot 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.