

Caleb Mueller

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Ambitious engineering student with expertise in computer-aided design (CAD), prototyping, and data processing. Skilled in applying research to real-world problems using advanced technologies. Eager to transition to professional work, developing innovative solutions for environmental challenges.

EXPERIENCE

SPARK LAB

Technician

Prince George, BC

November 2024 – Present

- Management of a 3D printing queue, ensuring models were print-ready, and edited for printability
- Repair and maintenance of four fused deposition modeling (FDM) 3D printers

OVER THE EDGE STUDENT NEWSPAPER

Administrative Assistant

Prince George, BC

July 2024 – Present

- Digitized bank and tax documents
- Created an Excel database for OTE articles scanned by UNBC's Northern BC Archives

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Research Assistant

Prince George, BC

September 2023 - August 2024

- 3D modeling and thermal simulation of artificial bat roosts in Fusion and SimScale
- Impact of climate change on water balance and drought in agricultural watersheds in British Columbia
- Processing of historical and projected climate data using Python, R-Studio, and ArcGIS Pro

CANADA REVENUE AGENCY

Administrative Support Clerk

Calgary, AB

May 2022 - August 2022

- Prepared tax correspondence and notices for mailing to taxpayers
- Reset and troubleshooted call center agent smartphones
- Sent urgent faxes and confirmed receipt by calling taxpayers

Administrative Assistant

May 2021 - August 2021

- Entered employee schedules, leave, and vacation balances in a proprietary database
- Maintained scheduling spreadsheets for managers and prepared Excel reports

STRATEGIC NATURAL RESOURCE CONSULTANTS

Assistant Development Technician

Prince George, BC

May 2019 - August 2019

- Conducted boundary and road layout, and riparian assessments
- Navigated blocks to identify and delineate buffer zones around streams

EDUCATION

University of Northern British Columbia

BASC Environmental Engineering

Prince George, BC

September 2020 – May 2025

TECHNICAL SKILLS

- CAD: SolidWorks, Fusion
- Data Analysis & Simulation: Python, Excel, Prism, ArcGIS, Simscale
- FDM 3D Printing

CERTIFICATIONS

- SolidWorks CAD Design Professional
- IBM Data Science Specialization

ID: C-Z86YEG5TLA

ID: 7KUJ2G6G6EJL

VOLUNTEERING

UNBC School of Engineering

Maintenance

Prince George, BC

October 2024 – Present

- Development of 3D printing capacity for the engineering program to enhance learning outcomes
- Maintenance of existing machines

Over the Edge Student Newspaper

Content Writer

Prince George, BC

July 2024 – Present

Spark Lab

Prototype Developer

Prince George, BC

January 2024 – Present

- Engaged with researchers to understand their needs and challenges in laboratory/field environments.
- Designed customized research solutions using CAD and 3D printing
- Built, repaired, and maintained 3D printers

AARCS Safe Haven

Veterinarian Assistant

Calgary, AB

September 2019 – December 2019

- Cleaned veterinarian surgical equipment, kennels
- Monitored animals before and after procedures

AWARDS

NSERC Undergraduate Student Research Award

May 2024

Natural Sciences and Engineering Research Council of Canada

- Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Award, awarded for outstanding research contributions in the natural sciences and engineering fields. The award recognizes exceptional research skills, creativity, and potential for future contributions to the field.

Undergraduate Research Experience Award

January 2024

University of Northern British Columbia

- The Undergraduate Research Experience (URE) Award at UNBC is a competitive program designed to involve undergraduate students in scholarly research. Recipients collaborate with faculty on research projects, developing critical thinking, inquiry, and research skills.

MEDIA LINKS

UNBC Environmental Engineering Ad: https://www.instagram.com/p/DBAF3oTs20l/?utm_source=ig_web_copy_link

Spark Lab CKPG Feature (time: 13:10): <https://ckpgtoday.ca/2024/06/24/ckpg-today-for-june-24-2024/>

Prince George Public Library Repair Café: <https://www.princegeorgecitizen.com/local-news/eco-living-community-holds-a-repair-cafe-at-prince-george-public-library-for-small-appliances-and-textiles-saturday-9338448>

Calgary International Film Festival Youth by Youth Cinema Overall Winner:

<https://calgaryherald.com/entertainment/calgary-international-film-festival-broke-attendance-records-in-2014-announces-award-winners>