

Caleb Mueller

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EDUCATION

University of Northern British Columbia

BASC Environmental Engineering

Prince George, BC

September 2020 – May 2025

- Accredited P.Eng. program with a focus on energy, hydrology, and project management
- Aided in the development of 3D printing capacity and educated engineering students in CAD design
- Participated in and conducted engineering research projects related to climate change, biology, and hydrology

CERTIFICATIONS

- SolidWorks CAD Design Professional
- IBM Data Science Specialization

ID: C-Z86YEG5TLA

ID: 7KUJ2G6G6EJL

EXPERIENCE

APPLIED ANALYSIS HUB

CAD Teaching Assistant

Prince George, BC

January 2025 - Present

- Teach graduate and undergraduate students 3D modeling for their research projects using CAD software
- Conduct CAD workshops and provide personalized support in techniques and applications

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Field Research Assistant

Prince George, BC

November 2024 – Present

- Conducted hydrology field work with a PHD student in challenging winter conditions

Student Researcher

January 2024 - August 2024

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

OVER THE EDGE STUDENT NEWSPAPER

Administrative Assistant

Prince George, BC

June 2024 – December 2024

- Created an Excel database for historical newspaper articles from UNBC's Northern BC Archives
- Digitized bank and tax documents

FIRST FORM

Owner

Prince George, BC

July 2023 - Present

- Development of complex assemblies for engineering projects in SolidWorks and Autodesk Fusion
- Sale of 3D printed items to promote the use of environmentally friendly products (e.g. self-draining bar soap holders)

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 agent phone

Administrative Assistant

May 2021- August 2021

- Entered employee schedules, leave, and vacation balances in a proprietary database, prepared Excel reports

TECHNICAL SKILLS

- Software: SolidWorks, Fusion 360, CADWORK, Prism, ArcGIS, SimScale
- Data analysis & simulation: Python, Excel, R
- Operation/maintenance of FDM 3D printers
- Scientific field work protocols

VOLUNTEERING

Spark Lab

Prototype Developer/Technician

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
- Management of a 3D printing queue, ensuring models were print-ready, and edited for printability
- Repair and maintenance of three fused deposition modeling (FDM) 3D printers
- Engaged with community members to solve everyday problems using technically advanced solutions

UNBC School of Engineering

Maintenance

Prince George, BC

July 2024 – Present

- Maintenance and operation of existing FDM 3D printer machines

Over the Edge Student Newspaper

Content Writer

Prince George, BC

July 2024 – Present

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

Natural Sciences and Engineering Research Council of Canada

May 2024

- 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

University of Northern British Columbia

January 2024

- 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

- Spark Lab CKPG Feature (video 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>