

Caleb Mueller

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EDUCATION

BASc Environmental Engineering

University of Northern British Columbia

Prince George, BC

September 2020 – May 2025

- Accredited P.Eng. program with a focus on energy, hydrology, lab testing, 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 and hydrology

CERTIFICATIONS

- SolidWorks CAD Design Professional
- IBM Data Science Specialization

ID: C-Z86YEG5TLA

ID: 7KUJ2G6G6EJL

EXPERIENCE

CAD Teaching Assistant

University of Northern British Columbia

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

Field Research Assistant

University of Northern British Columbia

Prince George, BC

November 2024 – February 2025

- Conducted hydrology field work with a PHD student in Fort St. James

Environmental Data Analyst – Student Researcher

University of Northern British Columbia

Prince George, BC

January 2024 - August 2024

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

Administrative Assistant

University of Northern British Columbia

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

Owner

First Form

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)

Administrative Assistant

Canada Revenue Agency

Calgary, AB

Summer 2021 / Summer 2022

- Prepared tax correspondence and notices for mailing to taxpayers, reset and troubleshooted call agent's phones
- Entered employee schedules, leave, and vacation balances in a proprietary database, prepared Excel reports

TECHNICAL SKILLS

- CAD/Simulation Software: SolidWorks, Fusion, HEC-RAS, EPANET, DWSIM, ArcGIS, SimScale
- Data Analysis: Python, Excel, R
- Operation/maintenance of FDM 3D printers
- Scientific field work protocols

VOLUNTEERING

Prototype Developer/Technician

Prince George, BC

Spark Lab

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

Technician/Teacher

Prince George, BC

UNBC School of Engineering

July 2024 – February 2024

- Maintenance and operation of FDM 3D printers
- Educated engineering students on 3D modeling and printing

Over the Edge Student Newspaper

Prince George, BC

Content Writer

July 2024 – December 2024

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

- 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>