

TECHNICAL SKILLS

Computer Skills

- SolidWorks
- MATLAB
- Microsoft Office Suite

Mechanical Skills

- 3D Modeling
- 3D Printing
- Machining

Programing Languages

- C
- C#
- Arduino IDE

EDUCATION

University of British Columbia
Bachelor of Applied Science - Manufacturing Engineering
Co-op: Available for 4 months beginning May 2025

Expected Graduation: May 2028

ENGINEERING DESIGN TEAM

UBC Rover, Vancouver, British Columbia
Mechanical Science Module Member

September 2024 – Present

- Designed and developed a carousel system for precision rotation and positioning of multiple liquid solution samples to aid in life-detection testing on the UBC Rover
- Gained hands-on experience with designing, SolidWorks, and 3D printing through prototyping and refining Rover assemblies for optimal performance
- Collaborated across multiple sub teams to troubleshoot design challenges, optimize functionality, ensure seamless integration, and meet project deadlines
- Demonstrated adaptability as a new team member by quickly developing technical skills through practical experience and collaboration, contributing to meaningful projects while fostering a passion for engineering design

TECHNICAL PROJECTS

Adaptive Device: Assistive Mouse Clicker, University of British Columbia **December 2023**
Designed and presented a user-friendly device for a client with limited finger and wrist mobility

- Collaborated with engineering students to brainstorm, design, and prototype an adaptive device
- Used a structured design process that included stakeholder/risk analysis, and concept evaluation using a Weighted Design Matrix
- Experience in Computer-aided design to model the device, ensuring ergonomic functionality
- Completed a Technical Memorandum that outlined the design process, requirements, and final recommendations

Rainwater Harvesting System for Van Anda, University of British Columbia **March – April 2023**
Addressed water scarcity issues in remote communities

- Developed and evaluated multiple potential solutions using a Weighted Decision Matrix and a Streamlined Life Cycle Assessment, based on stakeholder needs
- Utilized Excel for system modeling to simulate real life performance, allowing further recommendation for optimal water collection, storage, filtration, pump, and power systems
- Completed an Expression of Interest and presented the final project to peers by defending the system as a reliable and cost-effective solution to water scarcity, and produced a detailed video with specifics

OTHER WORK EXPERIENCE

Gate Gourmet, Calgary, Alberta
Kitchen Helper

July 2023 – August 2023

- Assembled airline meals for Air Canada and WestJet, adhering to high hygiene standards and safety protocols
- Demonstrated reliability and punctuality by meeting daily production targets

VOLUNTEER EXPERIENCE

My Best Friend's Closet, Calgary, Alberta
Garment Preparator

July 2022 – August 2023

- Sorted, steamed and prepared donated clothes to empower low-income girls by helping provide fashionable clothing for a personalized shopping experience
- Upcycled donated clothing by ensuring high quality preparation, contributing to sustainable practices in the community
- Attained effective communication and collaboration skills, ensuring smooth operations and timely completion of tasks

AWARDS

South Middle Campus Society Outstanding Service Scholarship	2023
Mr. Bruce Parkin Integrity & Character Award for Grade 12 Badminton	2023
Alexander Rutherford Scholarship	2023

PROFESSIONAL AFFILIATIONS

Engineers and Geoscientists British Columbia (EGBC)	2024 – Present
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INTERESTS & ACTIVITIES

• Sci-fi Media

- Passionate about games, songs, movies and books with futuristic themes such as *Cyberpunk 2077*, *Pacific Rim* and *Neuromancer*

• Space Exploration

- Fascinated by engineering innovations and advanced space technology, such as rovers, that enable space exploration and a deeper understanding of extraterrestrial environments.

• 3D Wooden Puzzles

- Enjoy constructing 3D wooden puzzles, with intricate details such as music boxes and moving parts