

Jackson Harding

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OBJECTIVE

Passionate and detail-oriented Biomedical Engineering student seeking to merge engineering knowledge with industry experience. In pursuit of a career focused on improving the quality of life for individuals facing medical challenges.

EDUCATION

Bachelor of Science in Biomedical Engineering | Minor in Digital Engineering **2022 - Present**
University of Calgary

- Alexander Rutherford Scholarship, 2022
- Jason Lang Scholarship, 2023
- GPA 3.6/4.0

INTERNSHIP STATUS

Available for work May 1, 2025, seeking a 12-to-16-month internship position

SKILLS

Initiative: Eager to meet challenges and quickly and has strong leadership skills developed through involvement in extracurricular and work leadership activities.

Passion for Learning: Positive attitude & fast learner, committed to learning required skills and displays a diligent work ethic.

Efficient Problem Solver: Effective understanding of problems and demonstrates strong time management skills gained from balancing academic and community commitments.

WORK EXPERIENCE

Research Assistant, Snyder Institute for Chronic Diseases **May 2024 – Sep 2024**
Calgary, AB

- Contributed to the development of a novel diagnostic index to assess microbiome health in premature infants
- Validated molecular techniques, including qPCR, for bacterial quantification, ensuring reliability for clinical use
- Utilized data analysis and machine learning to identify biomarkers related to microbiome maturation

Marketing Research, Nimble Science Ltd. **Feb 2024 – Aug 2024**
Calgary, AB

- Performed literature reviews aimed at identifying key biomarkers in the gut microbiome
- Enhanced marketing strategies aimed at increasing customer engagement
- Conducted research to understand target market, products, and services

Team Manager/Crew Trainer, McDonald's Canada**Sep 2017 – Jun 2020**

Calgary, AB

- Managed front end cashier duties, and ensured prompt, friendly customer service
- Led restaurant operations, providing guidance and corrective feedback to the team
- Oversaw training and development of new employees, delegating tasks and ensuring adherence to company standards
- Maintained quality service amidst a high-stress environment

ACADEMIC PROJECTS

Automated Garden**Sep 2022 – Dec 2022**

Calgary, AB

- Designed a dual-container garden system with an integrated watering mechanism, controlled by an Arduino board
- Implemented moisture sensors to automate watering, providing hydration levels based on soil moisture data

Handheld Arcade Gameboy with Custom Pac-Man Game**Sep 2022 – Dec 2022**

Calgary, AB

- Designed a compact and ergonomic handheld arcade device using AutoCAD
- Programmed and integrated a custom Pac-Man game with the device using Arduino

Vehicle Simulation Game Development**Jan 2017-Jun 2017**

Calgary, AB

- Developed a vehicle simulation game in JavaScript with dynamic interactions, real-time updates, and sprite management
- Programmed movement mechanics, including lane changes and speed adjustments
- Created dynamic animations and vehicle sprite transformations to enhance visual appeal and interactivity

Remote Control Monster Truck**Sep 2017 – Jun 2017**

Calgary, AB

- Designed and a four-wheeled drive, four-wheeled steering vehicle using AutoCAD Inventor
- Programmed an Arduino chip to control servos, signals, headlights, and reverse lights
- Developed custom logic for speed and turn calculation, implementing features such as brake velocity thresholds, signal light flashing, and headlight automation

VOLUNTEER EXPERIENCE

Volunteer Missionary, The Church of Jesus Christ of Latter-Day-Saints**Jul 2020 – Jul 2022**

Montréal, QC

- Navigated COVID-19 challenges to continue to safely serve the community
- Collaborated with local organizations for community relief efforts
- Led and motivated a team of missionaries as a zone leader, managing projects and timelines.
- Developed social media ad campaigns to effectively reach out to those in need
- Learned French language skills through intensive study and immersion.

REFERENCES

References can be made available upon request