

Guillermo Flores

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Technical Skills

- Engineering & CAD Software: C++, SolidWorks, CAD Applications, MATLAB, Digital Logic Circuit, MS Excel / Office
- Documentation & Data Analysis: Technical Document Control, Quality Assurance / Quality Check
- Lab & Fabrication: Component Fitment & Assembly, Iterative Bench Testing, Volumetric Testing

Projects

Student Budget Tracker

October 2025 - December 2025

- Built and iterated on a budget enforcement feature for a C++ command-line budget tracking program, developing and testing logic to flag and restrict overspending across defined budget categories, as part of a 5-member team.
- Applied iterative debugging and unit testing to validate core enforcement algorithms, ensuring accurate, reliable real-time tracking of user spending against set limits.
- Collaborated cross-functionally with teammates on input handling, data storage, and output/reporting modules to integrate the feature into a cohesive, production-ready command-line application over a 3-month development cycle.

Automated Measuring Cup

September 2025 - December 2025

- Led the mechanical design of an automated measuring cup by performing CAD modeling and stress analysis, ensuring structural integrity and precise component fitment across an 8-member team.
- Designed, prototyped, and tested a custom motor-driven dispensing mechanism using rapid prototyping and iterative bench testing across 2 prototype builds, successfully meeting targeted volumetric tolerances.
- Integrated mechanical subsystems with electrical circuits and software control algorithms through cross-functional collaboration, delivering a fully functional prototype on schedule.

Work Experience

Commercial Cook / Green Tee Country Club Westwood Plateau - Coquitlam, British Columbia April 2023 - Current

- Collaborated closely with kitchen staff in a fast-paced environment, communicating constantly to manage high-volume service for banquets of up to 280 guests.
- Applied strict time management and attention to detail to prepare banquet and à la carte meals under tight time constraints.
- Maintained food safety and operational standards during high-stress culinary rushes.

Landscaper / Koru Landscaping - Coquitlam, British Columbia

June 2025 - August 2025

- Coordinated with a 3-person site crew to execute residential and commercial landscaping projects safely and efficiently.
- Managed time and quality goals to complete projects on schedule while meeting high standards.
- Operated, inspected, and serviced complex commercial machinery with technical precision.

Volunteer Experience

Altar Serving / All Saints Parish - Coquitlam, British Columbia

April 2012 - Current

- Serving as an altar server while mentoring and training around 30 younger and newer altar servers in proper technique and responsibilities during services.

Faith Leader / Christian Catholic Outreach - Simon Fraser University

September 2026 - Current

- Leading weekly small group discussions for a self-recruited cohort of students, personally contacting around 15 people to build membership and foster a faith-centered community.

Education

Simon Fraser University

September 2026 - Current

Bachelor of Applied Science, Computer Engineering

- GPA: 3.6/4.33
- Dean's Honor Roll