Amy Trent

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EDUCATION

University of British Columbia Sept. 2025 – Present

Bachelor of Applied Science | Mechanical Engineering | Mechatronics Focus | 4.0 GPA Kelowna, BC

- **Year One Courses**: PHYS 112, CHEM 121, COSC 111, MATH 100, PHYS 121, CHEM 123, ECON 101, MATH 101, APSC 171, and APSC 179.
- **Coursework**: SolidWorks, Orthographic Projections, Java, Matrix, Calculus, Thermodynamics, Engineering Design, General and Organic Chemistry, Lab Experience, Mechanics, and Electricity and Magnetism.

EXPERIENCE

Math and Chemistry Tutor Sept. 2024 – April 2025

- Tutored a handful of different mathematic levels, ranging from the Grade 5 fundamentals to Grade 11 Pre-Calculus, including quadratic functions, polynomial factoring, rational expressions, linear and quadratic inequalities, radical operations, and trigonometry involving non-right triangles.
- Held a drop-in tutoring session for students struggling with Grade 11 Chemistry content, including stoichiometry, Lewis structures, and molarity calculations.

PROJECTS

Dog Cookie Dispenser Feb. 2021 – April 2021

- Designed a 3D printed dog cookie dispenser that played two similar sounds to test whether my dog could recognize which one signified an incoming cookie.
- Used 3D printing, a rack and pinion system, sensors, a speaker, and C running on an Arduino Nano.

Dragon Head Sept. 2023 – Jan. 2024

- Designed a 3D printed dragon head with proximity sensors that track where a person is in front of it, causing the dragon's LED eyes to follow the motion, a blue LED to signal a "fire attack", and the ears to move in accordance to its position.
- Used 3D printing, a servo, proximity sensors, LEDs, and C running on an Arudino MEGA2560.

1989 Batmobile Jan. 2026 – Present

- Collaborating on a team to design a complete 1989 Batmobile CAD model, designing all parts, subassemblies, and mates.
- Using SolidWorks.

Tree Planter Feb. 2026 – Present

- Working on a team to create a device that helps tree planters be more efficient with planting, while decreasing the back pain that often results from planting at awkward angles.
- Using 3D printing, SolidWorks, TBD.

SKILLS

Technical : SolidWorks, Java, C, 3D Printing, Arduino

Professional : Organization, Communication, Problem-Solving, Leadership, Adaptability, Self-Motivation, Critical-Thinking