

Channing Chen

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Available for an Internship from May, 2027 to August, 2028

EDUCATION

University of British Columbia

Bachelor of Applied Science (Mechanical Engineering)

Vancouver, BC

Expected Graduation: May 2030

- Presidential Scholars Award (\$80,000)

EXPERIENCE

Mechanical Engineering Intern

September 2026 – April 2027

Colare

San Francisco, CA

- Design and iterate on technical assessments for mechanical engineering candidates on the Colare platform, applying core mechanical engineering principles to calibrate scope, difficulty, and evaluation criteria
- Refine existing assessments based on candidate performance data and feedback from hiring partners
- Help manage the flow of our assessment questions through the validation process
- Audit current question development processes and identifying areas of efficiency and improvement; further implementing the most promising ideas

Research Engineering Intern

January 2026 – August 2026

Experimental Micromechanical Characterisation Research Group

Vancouver, BC

- Developed a profilometry system for material removal analysis for UBC's Electron Microscopy Laboratory
- Programmed a Python-based control architecture to orchestrate the motorized movement of the camera and interferometer assembly via a Raspberry Pi
- Engineered the integration of an interferometric Keyence CL-P015 confocal sensor for surface topography mapping via Gwyddion, linking this to the lab's robot-enabled SEM suite
- Conducted metrology measurement DOEs and validated repeatability and reproducibility validation to ensure micron-level accuracy
- Designed and manufactured mounting brackets in SolidWorks for mechanical integration
- Awarded an NSERC USRA, a federally funded national research grant

Mechanical Designer

September 2025 – August 2026

UBC Formula Electric (FSAE)

Vancouver, BC

- Designed a driver interface's dashboard enclosure in SolidWorks for an electric race car
- Collaborated in a fast-paced, cross-functional engineering team environment, utilizing Subversion (SVN) and Altium CoDesigner
- Validate enclosures for waterproofing, ensuring high performance in compliance with FSAE regulations

Student Researcher

October 2023 – August 2025

McCreary Centre Society

Vancouver, BC

- Conducted statistical data processing of 2023 BC Adolescent Health Survey data, utilizing IBM SPSS software to analyze large datasets and drive data-driven root cause analysis
- Collaborated with UBC researchers to improve the Middle Years Development Instrument (MDI) provincial health survey, identifying areas to optimize data collection methodologies
- Presented policy recommendations to the BC Ministry of Education and Childcare, advocating for improvements to provincial school food programs

SKILLS

Software: Python, SolidWorks, MATLAB, C, Java, ImageJ, Fusion 360, Arduino, Atlassian Suite, MS Office, Git

Engineering: 3-D Printing, Microscopy, Machining, GD&T, Measurement System Analysis, DOEs, Sample Preparation