Christopher Lam

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Education

University of British Columbia - Vancouver, Canada

B.A.Sc., Engineering (Engineering Physics focus) | Sept 2025 - Present

Relevant Coursework:

APSC 100 (Engineering Design), APSC 160 (Programming & Computation in Engineering), PHYS 157 (Thermodynamics, Oscillations & Waves), PHYS 158 (Electricity, Magnetism & Optics), PHYS 159 (Experimental Physics Lab – Measurement & Analysis)

Foothill High School - Pleasanton, CA

High School Diploma, GPA: 4.25 | Aug 2021 - May 2025

Relevant Coursework:

- AP Physics C: Mechanics & E&M (calculus-based mechanics, electricity, magnetism);
- PLTW Digital Electronics (logic circuits, Boolean algebra, breadboarding, soldering, Multisim simulation);
- PLTW Computer Integrated Manufacturing (CAD/CAM, CNC machining, manufacturing processes);
- PLTW Principles of Engineering (mechanics, materials, energy systems)

Independent Engineering Projects

- Custom LED Desk Lamp Built a spring-balanced lamp and analog LED driver, integrating mechanical design with circuit engineering.
- COVID-19 Emergency PPE Production Produced and distributed 3,500+ 3D-printed face shields; recognized by NorCal Ambulance.
- 3D Printing & Fabrication Assembled and calibrated a large-format 3D printer; designed and prototyped functional CAD models.
- **Mousetrap Car (1st Place)** Applied torque and friction optimization to engineer a top-performing mousetrap-powered vehicle.

Work Experience

In-N-Out Burger - Pleasanton, CA | Store Associate | 2022 - 2025 (Temporary Leave)

• Delivered high-quality service in a fast-paced environment while maintaining precision under pressure

Leadership & Activities

Scouts BSA Troop 941 - Pleasanton, CA | Senior Patrol Leader, Eagle Scout

- Elected leader of a 100-member troop, directing weekly meetings, multi-day outings, and training.
- Eagle Scout Project: Designed and led installation of a public bicycle repair station, managing 15+ volunteers.

Skills

- Engineering & Technical: Autodesk Inventor, Fusion 360, Arduino, soldering, oscilloscope, CAD/CAM, 3D printing (FDM), CNC/laser cutting
- Digital Electronics: Circuit logic design, Boolean algebra, truth tables/K-maps, breadboarding, soldering, simulation, troubleshooting
- Programming: Python (basic), Arduino C
- Lab/Research: Materials testing, mechanical load experiments, prototyping workflows
- Interpersonal & Communication: Team leadership, collaboration, technical communication,
- Interests: Hiking (Mt. Whitney, Mt. Fuji), photography, design & film