Ho Tin (Timothy) Chan

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Profile

Multidisciplinary technical professional with 2 years of hands-on experience in biotechnology and mechanical systems, and over 3 years of STEM instruction. Holds a Bachelor's Degree in Physics and an Associate Degree in Engineering. Skilled in problem solving, data analysis, and experimental instrumentation, with proven ability to communicate complex ideas across technical and non-technical teams. Detail-oriented, adaptable, and analytically minded, with a strong foundation in precision engineering and cross-disciplinary collaboration. Permanent resident of Canada and eligible for security clearance in North America.

Skills

Programming Languages:	C, Python, JavaScript
Web Development:	HTML, CSS, Node.js, Flask
Databases & Query Languages:	SQLite, MySQL
Tools & Environments:	Arch Linux, Kali Linux, VMware
Markup & Documentation:	LaTeX

Projects

Personal Website - *HTML, CSS, JavaScript*   May 2025
- Developed and deployed a personal website using HTML, CSS, and JavaScript on Netlify to showcase and document various technical projects

Networking Simulation - *Cisco Packet Tracer*   May 2025
- Created a comprehensive computer networking project in Cisco Packet Tracer, configuring critical servers including DHCP, DNS, FTP, Email, and IoT devices

Physics Engine Prototype - *C*   May 2025
- Implemented a basic single-particle physics simulation in C using the semi-implicit Euler method as a foundation for future physics engine development

Certification

- CompTIA A+ (In Progess, Expected July 2025)
- Harvard CS50: Introduction to Computer Science
- IBM Data Science Specialization

Experience

Mathematics/Physics Teacher - *Pattison High School, Vancouver*   Sep 2024 - Apr 2025
- Taught senior high school Mathematics and Physics in group settings of 7–15 students
- Communicated complex technical concepts clearly and effectively
- Supported a culturally diverse student body, strengthening cross-cultural communication skills

Mathematics/Science Teacher - *Royal Canadian College, Vancouver*   Sep 2023 - Jul 2024
- Instructed small groups (2–7 students) in high school-level Mathematics, Chemistry, and Biology
- Adapted teaching methods to support diverse learning needs, including ADHD and dyslexia
- Delivered personalized guidance to enhance comprehension in STEM subjects

Astronomy Laboratory Technician - *Douglas College, New Westminster*   Sep 2022 - Apr 2024
- Delivered demonstrations and technical instruction on experimental instruments in Astronomy laboratory sessions
- Guided students in applying mathematical and data visualization techniques for scientific analysis
- Maintained and managed sensitive optical and electronic equipment per departmental standards

HVAC Estimator - *ECCO Supply, Burnaby*   Nov 2021 - Aug 2022
- Reviewed mechanical drawings and specifications for industrial, commercial, and residential projects
- Coordinated with 20+ HVAC vendors, including Honeywell and Panasonic
- Supported bidding on sheet metal projects over $1M, including Two Gilmore Place and Oakridge Park

Biotechnology Research Assistant - *eNano Health Limited, Hong Kong*   Sep 2020 - Jun 2021
- Designed and optimized genetic sequencing protocols for micro-RNA analysis, achieving high-throughput data output
- Performed precise clinical sample analyses using ELISA and LC-MS methodologies
- Managed end-to-end production workflows, ensuring quality control and operational efficiency in laboratory processes

Education

Bachelor Degree of Science (BSc), Physics - *The Hong Kong University of Science and Technology*   2016 - 2020
- Final Year Project: Simulations of transport properties of Weyl semimetals with multiple pairs of Weyl nodes

Associate Degree in Engineering - *PolyU Hong Kong Community College*   2014 - 2016
- Practical training in materials science, electrical and electronic engineering, and computer programming