

Patrick Huynh

I am a diligent and community-focused student, constantly engaged in side projects during my spare time and would like to become a cybersecurity engineer to protect our increasingly connected world of smart devices with internet-of-things (IoT) capabilities.

✉ patrick@patrickh.ca

🌐 patrickh.ca

📄 [patricklbh](#)

WORK EXPERIENCE

AgeCare — Service Desk Analyst

AUGUST 2022 - PRESENT

- Transitioned to a part-time position in January 2023 after completing a one week contract in August 2022, providing first-level technical support by investigating and diagnosing incidents with healthcare personnel.
- Managed a migration of over 5,000 user accounts from Chartwell Ontario to AgeCare, facilitating a seamless transition following the acquisition of 20+ LTC establishments across Ontario.
- Completed a Hosted Exchange to Microsoft 365 rollover, overseeing over 4,000 user mailboxes through EAC.

Government of British Columbia — Advisory Board Member

SEPTEMBER 2023 - JUNE 2024

- Selected as 1 of 9 advisory board members for the Health Gateway project by the Ministry of Health, reporting to the Connected Patient Experience Strategic Planning Council (CPESPC).
- Assisted with the development of Health Gateway 2.0 using Figma and over Teams meetings.

LEADERSHIP EXPERIENCE

Student Council — Executive Tech Specialist

SEPTEMBER 2020 - JUNE 2024

- Assisted the school with running grand events, like the annual talent show, Thompson's Got Talent, which had over 450 attendees.
- Helped create promotions for the Student Council using software like Adobe Premiere, Photoshop, Canva, and DaVinci Resolve.
- Occasionally created meeting minutes/agendas and led meetings.
- Performed maintenance on the auditorium during Pro-D days or FIT to ensure school wide assemblies and events run smoothly.

Science Club — President

SEPTEMBER 2019 - JUNE 2024

- Started as a member in 2019, joining the executive team in 2020, now holding the position of president as of September 2023.
- Invited guest presenters from UBC, SFU, and Science World for students to learn about external opportunities available.
- Facilitated a variety of interactive presentations in STEM about physics, computer science, medicine, and science fair preparation.

EDUCATION

David Thompson Secondary, Vancouver — High School

SEPTEMBER 2019 - JUNE 2024

- Over 650 hours of service contributed to the school
- Student of the [Odyssey Mini School Program](#)
- Secretary of the David Thompson Maker Club
- Wrestling Team Captain

AWARDS

Schulich Leader Scholarship

Recipient of Canada's largest and most prestigious merit-based undergraduate STEM scholarship, valued at \$120,000.

2023 GVRSF Bronze Award

Learned how to use APIs in Python to create an AI-Powered IoT Parking Meter run on a Raspberry Pi 4.

2022 SHAD Canada Design Challenge Winner

Developed a portable safety device for vulnerable people that sent real time notifications of threats (weapons) in the environment.

2022 UBC Engineering Design Competition Winner

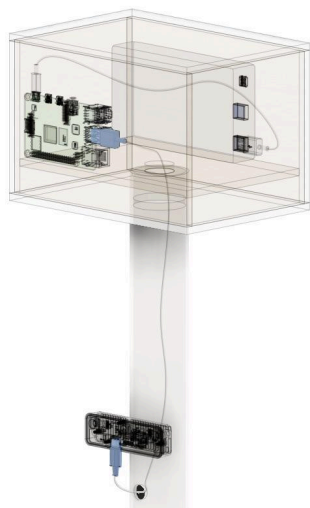
Engineered a solution to food shortages with a group, winning "Best of Competition".

2021 GVRSF Silver Award

Innovated alternative materials of HDPE plastics using beeswax and carnauba wax, while testing for their tensile properties.

AI-Powered IoT Parking Meter

September 2022 – April 2023



Project Link: <https://sf2022.patrickh.ca/>

- Worked with a partner to create an AI-Powered Parking Meter with the goal to **eliminate harmful emissions** caused by routine maintenance and vandalism from city crews.
- Leveraged a variety of tech stacks **Python, MySQL, Twilio's REST API, and OpenCV** to create an application run on a Raspberry Pi 4 to automate the payment parking process.
- **Conducted 45 trials** to test different scenarios such as the meter's ability to recognize and authenticate vehicles yielding a **95.6% accuracy rate**.
- Received grants from the Science Fair Foundation of BC and advanced to the Greater Vancouver Regional Science Fair, ultimately being **awarded bronze out of 191 projects**.

Cam Tag: A Portable Safety Device

July 2022

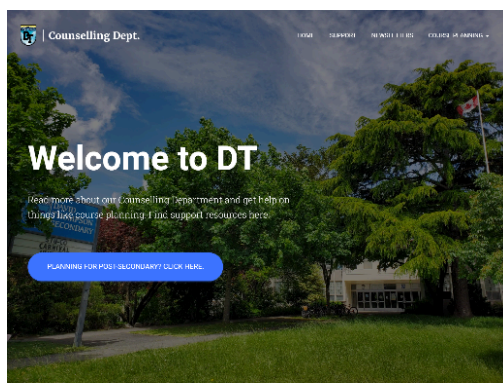


Slide Deck: <https://camtag.patrickh.ca/>

- Tasked with the objective to design, create, and pitch a product in **27 days** at the 2022 SHAD Program with a team.
- **Pioneered and prototyped** a backpack-mounted camera designed to identify potential threats in the form of weapons using AI to alert users.
- Assisted with the training of an ML model with **over 10,000 data points** to detect weapons.
- Pitched a fully functional prototype at Toronto Metropolitan University, **placing 1st** in a design competition.

DT Counselling Website

October 2021 – Present



Project Link: <https://dtcounselling.ca/>

- **Designed and created** the DT Counselling Website to aid students with mental health resources and course planning to assist newcomers, existing students, and parents.
- Used **Microsoft Hyper-V, Linux, and MariaDB** to publicly host the site, along with **Cloudflare** for serving DNS.
- Languages used to develop the site include **HTML, CSS, JavaScript, PHP**, and various tools from WordPress.
- **Collaborated** with the school's counselling team to update content like seasonal newsletters, course planning guides, along with information about post-secondary applications.