

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](https://www.linkedin.com/in/patricklbh)

WORK EXPERIENCE

AgeCare — Service Desk Analyst

JANUARY 2023 - PRESENT (AUGUST 2022 – 1 WEEK CONTRACT)

- Leverage Microsoft Entra, Azure, Excel, PowerShell, and Active Directory to efficiently resolve support tickets and enhance business operations.
- Design and implement phishing simulation campaigns to support cybersecurity training initiatives.
- Managed a migration of 5,000+ user accounts, as well as a Hosted Exchange to Microsoft 365 rollover, overseeing 4,000+ user mailboxes through Exchange Admin Centre.

Government of British Columbia — Contract

SEPTEMBER 2023 - PRESENT

- One of thirteen advisory board members for the Health Gateway project by the Ministry of Health, reporting to the Health IT Strategy Branch.
- Assist with the development of Health Gateway 2.0 and seamless integration with the BC Services Card app.

LEADERSHIP EXPERIENCE

Student Council — Executive Tech Specialist

SEPTEMBER 2020 - JUNE 2024

- Assisted with grand events like the annual talent show, Thompson's Got Talent, with 450+ attendees.
- Facilitated meetings including developing agendas and taking minutes.
- 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

- Coordinated presentations from UBC, SFU, and Science World for students to learn about available opportunities.
- Facilitated a variety of interactive presentations in STEM about physics, computer science, medicine, and science fair preparation.

EDUCATION

University of British Columbia — Bachelor of Applied Science

SEPTEMBER 2024 - PRESENT

- Developing PCBs and schematics for [UBC Orbit](#), as well as firmware in C for their RF Communications team.

David Thompson Secondary — High School Diploma

SEPTEMBER 2019 - JUNE 2024

- Over 650 hours of service contributed to the school
- Student of the [Odyssey Mini School Program](#)
- 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

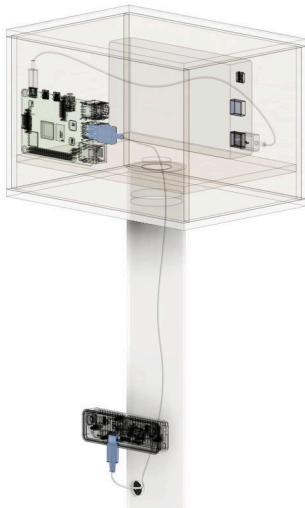
Engineered a solution to food shortages with a group, winning "Best of Competition".

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 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

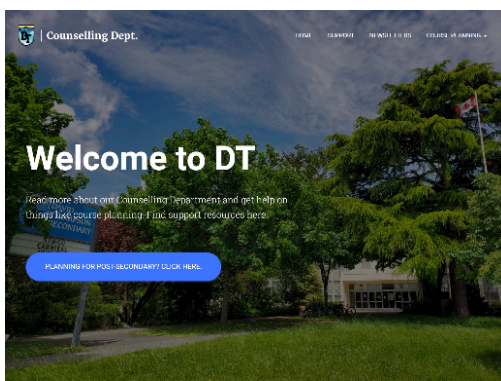


Slide Deck: <https://camtag.patrickh.ca/>

- 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.

What We Do



Counselling Services

Anything on your mind? Having troubles with your friends or family? Please come...



Courses & Scheduling

If any course conflicts are present in your schedule, or if things aren't working...



Anything Else

We will try our best to assist with anything within our abilities. If there is...