

# Victor Yang

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## EDUCATION

University of British Columbia | Okanagan

April 2028

*Bachelor of Applied Science*, Major in Manufacturing Engineering

CGPA: 85.5% | Dean's List

## ENGINEERING DESIGN TEAMS

Okanagan Motorsports, UBCO

September 2023 - Present

*Vehicle Dynamics*

- Collected and analyzed performance data from track tests for improving and adjusting driver interface and vehicle dynamics
- Maintained work environment cleanliness to ensure safety and organization in the workshop
- Responsible for machining several parts for the race car in a machine shop, experience with tolerancing and metrology.

## TECHNICAL WORK EXPERIENCE

UBC Composites Research Network, Kelowna, BC

February 2025 - Present

*Research Assistant*

- Created a SOP document for a new piece of lab equipment.
- Annotating data for training a machine learning model.
- Created tools to help train a machine learning model to identify abnormalities with wrinkles on parts.

## TECHNICAL PROJECTS

*Ember Alert* | <https://youtu.be/prgUgCiNibc>

January 2024 - March 2024

- Awarded 1st Place Design in 2023-24 APSC 171 Design Competition
- Engineered an innovative solution to assist firefighters with finding underground embers post wildfires
- Conceived an all-in-one solution leveraging an ESP32 microcontroller hosting a web app to allow multiple users to access temperature and geolocation data being recorded by a handheld sensor utility called the Ember Alert
- Applied SolidWorks to model enclosures, HTML, CSS, and JavaScript was used for a custom web app

*Toyota AE86 SolidWorks Model* | <https://youtu.be/9Xse4sq8zzQ>

January 2024 - March 2024

- Produced a model of the Toyota AE86 with an emphasis on attention to detail, totaling to over 200 hours of work in SolidWorks
- Collaborated with a team of 5 people to make an assembly of over 20,000 parts including a working drive train, suspension, engine, and transmission

*Laptop SSD Recycling*

September 2023 - November 2023

- Developed a novel solution to address waste of aging or dead laptops by repurposing into USB mass storage devices
- Engaged in extensive use of Gantt software to model critical paths and risks, and assign tasks ensuring consistency of progress
- Created weekly design reports made in Microsoft word on various stages of design process

## OTHER WORK EXPERIENCE

Pacific National Exhibition, Vancouver, BC

May 2023 - September 2024

*Parking Attendant, Seasonal*

- Answered visitors' questions about general information involving directions, ticket prices, and location of amenities
- Managing entrance gate of the PNE parking lot where over 3000 cars park daily
- Extending communication skills by solving problems and de-escalating any potential issues

Science World, Vancouver, BC

May 2022 - July 2022

*Assistant Science Facilitator*

- Managed displays and galleries and helped with opening and closing by ensuring areas were orderly and all items were orderly
- Strengthened customer service skills by engaging with families and assisting visitors
- Spent time working with children between the ages of 5 to 13

## HONORS AND AWARDS

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|--|------|
| • APSC 171 Design Competition 1st Place Design               | 2024 |
| • Dean's List  | 2024 |
| • Deputy Vice-Chancellor Scholarship for Continuing Students | 2024 |

## PROFESSIONAL AFFILIATIONS

- Engineers and Geoscientists British Columbia

January 2023 - Present

## OTHER INTERESTS & ACTIVITIES

Hiking | Basketball | Camping | Cornhole | Gaming

## TECHNICAL SKILLS

**Programing:** Python | HTML | CSS | React | Tailwind | Typescript | JavaScript | C++ | R | Java | Next.js

**Software:** SOLIDWORKS | Siemens NX | Microsoft Office Suite | Gantt Project | Git

**Hardware:** Soldering | Hand/Power Tools | Microcontrollers | 3D printing | Machine Shop | Metrology