

# Victor Yang

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## TECHNICAL WORK EXPERIENCE

### Composites Research Network Lab

February 2025 - Present

#### Undergraduate 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.
- Responsible for creating graphics and data analysis of materials testing.
- Co-authored a paper on plastination of western red cedar <https://doi.org/10.3390/ma18184353>

## TECHNICAL PROJECTS

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

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

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

2024

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

### Laptop SSD Recycling

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

## EDUCATION

### University of British Columbia

April 2027

#### Bachelor of Applied Science, Major in Manufacturing Engineering

CGPA: 85.5% | Dean's List

## ENGINEERING DESIGN TEAMS

### UBCO Steel Bridge

September 2025 – Present

#### Fabrication Lead

- Responsible for organizing meetings for the fabrication sub team.
- Teaching sub team members the foundations of creating shop drawings.
- Ensuring CAD designs and shop drawings are viable for production.

### Okanagan Motorsports

September 2023 – September 2025

#### Vehicle Dynamics Engineer

- 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.
- Designed a pedal box for the driver training racing simulator.

## OTHER WORK EXPERIENCE

### Pacific National Exhibition

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

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

## PROFESSIONAL AFFILIATIONS

- Engineers and Geoscientists British Columbia

2023 - Present

## TECHNICAL SKILLS

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

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

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