Victor Yang

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PERSONAL SUMMARY

I am a 3rd year manufacturing engineering student at UBC and seeking a 16-month co-op opportunity. Through my hands-on experience in research, technical projects, and student design teams, I've developed strong problem-solving, leadership, and teamwork skills. I'm eager to apply my technical and collaborative skills in a real-world professional engineering environment where I can continue to grow and deepen my understanding about the industry.

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 | CODESYS | Arena Simulation
Hardware:	Soldering | Hand/Power Tools | Microcontrollers | 3D printing | Metrology | CNC machining

EDUCATION

University of British Columbia *April 2027*
Bachelor of Applied Science, Major in Manufacturing Engineering
CGPA: **85.5%** | Dean's List

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

Pacific National Exhibition *May 2023 - September 2024*
Seasonal Attendant
- Extending communication skills by solving problems and de-escalating any potential issues
- Managing entrance gate of the PNE parking lot where over 3000 cars park daily

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

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 300 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

ENGINEERING DESIGN TEAMS

UBCO Steel Bridge *September 2025 – Present*
Fabrication Lead
- Organizing engaging and fun 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.

OK 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 in Siemens NX for the driver training racing simulator.