

Yohan Cho

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EDUCATION

BACHELOR OF APPLIED SCIENCE, UNIVERSITY OF BRITISH COLUMBIA

EXPECTED JUNE 2021

- 5th year Mechanical Engineering, Cumulative Average: 82%

WORK EXPERIENCE

CO-FOUNDER, DE INNOVATIONS INC, VANCOUVER

JUN 2020 - PRESENT

- Designed (SolidWorks), manufactured (injection molding) and outsourced large-scale injection molding overseas for a collection of original drinking gadgets to grow the business from zero to six figures
- Other duties include product design consulting for influencers, filing Canadian and US patent applications, outreach and procurement of liquor sponsors, supply chain optimization of 15 different suppliers

MECHANICAL PRODUCT DESIGN INTERN, DOMETIC, VANCOUVER

JAN 2020 - APRIL 2020

- Modeled (Creo) and machined mounting fixtures and prototype jigs for vibration and cycle testing to validate longevity and robustness of marine electric steering actuators
- Assembled prototype electric actuators and initiated control tests for motor performance, thermal bearing expansion and gasket sealing
- Created six test engineering reports and produced 11 technical engineering drawings (Creo) for production

MAINTENANCE INTERN, LABATT BREWERIES OF CANADA, VANCOUVER

MAY 2019 – AUG 2019

- Designed a brewery process improvement system that will save up to 42,000 hectoliters of water every year by recycling water from a can rinser and rerouting it to other brewery machinery
- Developed preventative maintenance procedures for all twelve machines on the can packaging line which mechanics will complete on monthly intervals to improve machine robustness and limit breakdowns
- Utilized data visualization software (Power BI) to create automatically updating dashboards for line efficiencies and machine downtime data to deliver valuable, relevant information to operators

PERSONAL PROJECTS

- **The Pump Action™:** Prototyped and manufactured an injection molded, innovative can puncturing device with a successfully funded Kickstarter of \$12,600
- **Robotic Arm:** Developed a fully 3D printed, 5 degree of freedom, robotic arm that is programmed (Arduino) and Bluetooth-enabled to move on command via Android (MIT App Inventor)
- **Portfolio Website:** Designed layout using Adobe XD and coded website from scratch using HTML & CSS to display relevant personal projects in a user-friendly interface (www.yohancho.ga)

ENGINEERING TEAMS & INVOLVEMENT

VEHICLE MECHANICS, UBC SUPERMILEAGE, VANCOUVER

SEPT 2018 – MAY 2019

- Designed (SolidWorks) and manufactured (Machine Shop) a direct steering system using Ackerman geometry to increase vehicle fuel efficiency by replacing the current indirect steering linkages
- Assembled and streamlined (Machine Shop) a three-wheeled vehicle which traveled 1571 mpg and placed 2nd out of 18 teams at the 2019 Shell Eco-marathon Americas competition

RESEARCH AND DEVELOPMENT, UBC SUSTAINABILITY INITIATIVE

AUG 2018 - MAY 2019

- Initiated product development of a magnetic latch mechanism onto large Shaefer garbage bins to lessen effects of stray garbage around campus and received \$1,500 of funding from UBC

TREASURER, UBC CVC, VANCOUVER

MAY 2018 - PRESENT

- Managed the largest university club consisting of 550 members and 80 executives with a fiscal revenue of \$81,000 by implementing comprehensive online spreadsheets and strategically allocated budgeting
- Researched products and contacted four companies to negotiate and procure over \$6,000 of club merchandise

SKILLS & INTERESTS

- **MECHANICAL:** CAD (SolidWorks, Creo), 3D Printing, Machine Shop and Power Tools
- **SOFTWARE:** MATLAB, C, Arduino, HTML, CSS, Oscilloscope, and Microsoft Power BI