

RICHARD TANG

3980 Rupert Street, Vancouver, BC, V5R 2H1 • rtang400@gmail.com • 778-838-9586

Portfolio: <https://richardktang.wixsite.com/portfolio>

LinkedIn: [linkedin.com/in/richard-tang-7479b7249](https://www.linkedin.com/in/richard-tang-7479b7249)

TECHNICAL SKILLS

Design/Modelling

- Fusion 360/SolidWorks
- Figma
- Engineering Drawings/ Drafting

Software

- Unity, C#
- MATLAB, C
- Microsoft Office

Hardware

- SMT / THT Soldering
- PCB Testing and Inspection
- Waterjet Cutter

TECHNICAL WORK EXPERIENCE

SAPA Technologies Ltd., Vancouver, BC

06/2021 – 08/2021

Technician

- Engaged with multiple shipping companies to verify that products arrived on time
- Managed the intake of electronic components to verify that we received the correct product
- Regularly conducted inventory checks to minimize assembly downtime
- Oversaw the assembly process of flexible LED light sheets, in the ranges of hundreds weekly
- Soldered through-hole components onto PCBs
- Used software testing equipment to minimize the variation between the LED light sheets

EDUCATION

University of British Columbia

Bachelor of Applied Science - Manufacturing Engineering

Expected Graduation: 06/2025

Co-op: Available for 4 months beginning May 2023

TECHNICAL PROJECTS

UBC Rocket, University of British Columbia

09/2022 - Present

- Worked with sub team to design and manufacture suborbital rocket endcaps
- In the process of designing and assembling a filament winder
- Done extensive research on materials such as woven carbon fiber and epoxy resin
- Created documentation detailing the manufacturing procedures of the tanks

Biztech & IEEE InnoVent, Case and Design Competition

03/2023 – 03/2023

- Collaborated with 1 other engineering and 2 business students to create a physical prototype of our product, "Semi Autonomous Modular Indoor Vertical Farm", S.A.M.I farm
- Created the UI for the mobile app in Figma
- Built a scaled down version of the base module using an Arduino and laser cut acrylic.
- Presented our product to a panel of “investor” judges

Polynomial Calculus Calculator, University of British Columbia

09/2022 - 11/2022

- Programmed a calculator in C#, that is able to evaluate expressions
- Used the Shunting Yard algorithm to convert infix notation to postfix notation
- Used the Reverse Polish notation to calculate expression in the correct order of operations