RICHARD TANG

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SKILLS

Design/Modelling	Software	Hardware
• Fusion 360/SolidWorks	• Unity, C#	• SMT / THT Soldering
• Figma	• MATLAB, C	• PCB Testing and Inspection
• Engineering Drawings/ Drafting	• Microsoft Office	• Waterjet Cutter

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

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