

# RICHARD TANG

Fourth Year Manufacturing Engineering Student

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Portfolio: <https://rktang.github.io>

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## TECHNICAL SKILLS

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### Design/Modelling

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

### Software

- Unity, C#
- MATLAB, C
- ANSYS

### Hardware

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

## EDUCATION

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University of British Columbia, Vancouver, BC

Expected Graduation: 06/2026

Bachelor of Applied Science - Manufacturing Engineering

## TECHNICAL WORK EXPERIENCE

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MDA Space, Brampton, ON

05/2024 - 08/2025

Manufacturing Engineering Student

- Procurement Status Tool: Developed and implemented an internal tool to manage and provide visibility into the procurement cycle, streamlining operations and improving decision-making.
- Process Improvement: Evaluated and enhanced manufacturing and operational methods, boosting workflow efficiency and reducing production time.
- 5S + 1 Practices: Applied 5S + 1 practices to organize labs and office spaces, resulting in a safer and more productive work environment.
- Continuous Improvement: Led and contributed to continuous improvement projects, reducing non-value-added tasks for technicians and enhancing overall productivity.

SAPA Technologies Ltd., Vancouver, BC

06/2021 – 08/2021

Technician

- Engaged with 5+ shipping companies to verify that products arrived and shipped on time.
- Managed the intake of 100+ unique electronic components and organized into inventory.
- Regularly conducted inventory checks to minimize assembly downtime.
- Oversaw the assembly process of flexible LED light sheets, in the ranges of 1000+ weekly.
- Hand soldered 100+ through-hole components onto PCBs.
- Used software testing equipment to minimize the variation between the LED light sheets.

## TECHNICAL PROJECTS

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MANU 330 RC Car Course Project, University of British Columbia

09/2023 – 04/2024

- Participating in a comprehensive Manufacturing Engineering course, gaining hands-on experience in manufacturing process design, analysis, and mechanical design of the product.
- Elevating teamwork and professional communication skills, both in report writing and presentations.
- Developing a strong understanding of cost implications and failure analysis in manufacturing.

UBC Rocket, Student Design Team

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.