

Christopher Sutanto

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EDUCATION

The University of British Columbia

Bachelor of Applied Science, Mechanical Engineering

GPA (Past Year): **3.75**/4.33, GPA (Cumulative): **3.40**/4.33

*Vancouver, BC
April 2021 (expected)*

TECHNICAL COMPETENCIES

- SolidWorks (CSWA Certified), Fusion 360
- SolidWorks Simulation, SolidWorks PDM
- Programming Languages: Java, C++, C, Python
- Laser Cutting and 3D Printing
- Raspberry Pi and Arduino
- LaTeX Typesetting System

PERSONAL PROJECTS

Off-road Vehicle Brake Pedal (UBC Baja SAE Student Team)

September 2018—Present

- Completely redesigned a brake pedal to withstand higher forces while limiting weight increase
- Designed in SolidWorks and evaluated in SolidWorks Simulation
- Applied in-class knowledge of solid mechanics (stress concentration, yield strength)
- Wrote documentation outlining issues with previous designs and explaining implemented fixes

Desktop Bus Information Display

July 2018—August 2018

- Implemented a Raspberry Pi Zero W powered desktop fixture to display live bus information
- Programmed in Python and used Metro Vancouver's TransLink API for bus information
- Designed and 3D printed two-part housing using SolidWorks

Automatic Fish Feeder

July 2018

- Designed and 3D printed an automatic fish feeder using SolidWorks
- Controlled mechanism using Arduino running program written in C++

Colostomy Bag Attachment System

March 2018—May 2018

- Recreated a design for an adhesive-free colostomy bag attachment system in Fusion 360
- Optimized 3D model for 3D printing through iterative improvements
- Documented 3D printer settings and design choices for reproducibility in Indonesian hospitals

RELEVANT PROFESSIONAL EXPERIENCE

Junior IT Support Analyst

February 2018—May 2018

The University of British Columbia Department of Psychology

Vancouver, BC

- Used communication skills to effectively correspond technical solutions both in person and over email
- Gained familiarity of the ServiceNow IT service management system, computer hardware, and basic networking concepts
- Provided technical support in a way that significantly reduced issue recurrence

Workshop Assistant

July 2017—June 2018

MakerLabs

Vancouver, BC

- Took part in the maintenance and organization of one of the largest maker spaces in North America
- Worked side-by-side with fabricators on laser cutter and general fabrication jobs

CAMPUS INVOLVEMENT AND VOLUNTEER EXPERIENCE

Administrative Director, UBC Cooking Club

September 2017—Present

Sponsorship Director, UBC Student for Partners in Health Canada

September 2017—May 2018

Volunteer Workshop Assistant, MakerLabs Vancouver

May 2017—June 2017

Kitchen Assistant, Operation Sack Lunch (Soup Kitchen)

October 2014—March 2015