

# Christopher Sutanto

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## EDUCATION

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### 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

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- Programming Languages: Java, C++, C, Python
- LaTeX Typesetting System
- Computer-aided Design: SolidWorks, Fusion 360
- Raspberry Pi and Arduino
- Adobe Premiere
- Laser Cutting and 3D Printing
- ServiceNow IT Service Management

## PERSONAL PROJECTS

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[details on chrisutanto.github.io](https://github.com/chrisutanto)

### 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
- Used SSH and BASH Unix shell
- 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
- Communicated with colostomy bag user to receive feedback on design changes
- Documented 3D printer settings and design choices for reproducibility in Indonesian hospitals

## RELEVANT PROFESSIONAL EXPERIENCE

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### Junior IT Support Analyst

*February 2018—May 2018*

The University of British Columbia Department of Psychology

*Vancouver, BC*

- Part of a small team responsible for the build, maintenance, and repair of systems and equipment of a large research lab
- 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

*Vancouver, BC*

- Maintained and organized one of the largest maker spaces in North America
- Worked side-by-side with fabricators on many laser cutter and general fabrication jobs

## CAMPUS INVOLVEMENT AND VOLUNTEER EXPERIENCE

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**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*