# KEVIN WANG

## STATUS

❯ Searching for software co-op or internship placements starting Summer 2019

## EDUCATION

**BASc in Computer Engineering**    University of British Columbia, Sept 2016 - Present

❯ Pursuing software focused Computer Engineering degree - 3.85 GPA

❯ Anticipated graduation date: **May 2022**

## EXPERIENCE

**Manufacturing R&D Engineer**    Watts Water Technologies, May 2018 - Aug 2018

❯ Developed innovative mechanical, electrical, and software solutions to increase manufacturing efficiency and lower production costs

❯ Brainstormed and manufactured a modular cartridge style clamping test stand which cut manufacturing time in 1/3 and test stand costs in 1/10 along with another intern

❯ Designed a unique slide style test stand to solve testing issues with OEM product line

❯ Created action plan to fully automate specific processes in our manufacturing plant and negotiated equipment deals with Chinese machine manufacturers

❯ Fixed major LCD alignment issue affecting user interface for boiler control product line

❯ Redesigned PCBs for older product lines to accommodate new enclosure designs and certification requirements

**Energy and Power Systems Lead**    UBC Orbit, Jan 2016 - Sept 2018

❯ Led the Energy and Power systems sub-team for UBC's satellite design team

❯ Developed I2C communication interface in C to monitor and communicate with power system and battery modules

❯ Simulated satellite flight paths over two year period storing access and telemetry data

❯ Modelled satellite power consumption using a state machine and created a power simulation of two year mission using Matlab

❯ Created block diagram electrical routing and power rationing for all satellite subsystems

❯ Managed ongoing project deadlines and distributed tasks to team members

## TECHNICAL PROJECTS

**Wayfinder Smart Jacket**    Capstone Project, Sept 2017 - April 2018

❯ Brainstormed, prototyped, and designed a functional smart jacket for Vancouver cyclists

❯ Provided hands free navigation through vibration in either arm using Google Maps API

❯ Created a hands-free LED signalling system for low visibility conditions triggered by specific hand signals

❯ Prototyped android app to set routes with Google Maps and activate turn signals over Bluetooth using MIT App Inventor

❯ Recognized as one of the best engineering projects at Design and Innovation Day at UBC

## CONTACT

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 linkedin.com/in/kw62/

## SOFTWARE

</> Java - 5000+ Lines

</> C - 3000+ Lines

</> Assembly - 500+ Lines

</> C++ - Familiar

</> Python - Familiar

 Version Control

## CAD

 Altium Designer

 SolidWorks

## MANUFACTURING

 SMT PCB Assembly

 3D Printing

 3-Axis CNC Machining

## HOBBIES

 Competitive E-Sports

 Piano

 Badminton

## LANGUAGES

 English - Native

 Mandarin - ILR Level 2

 French - ILR Level 2