KEVIN WANG

EDUCATION

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

❯ Pursuing software focused Computer Engineering degree - 3.70 GPA

❯ Anticipated graduation date - **May 2022**

EXPERIENCE

SoC Emulation Engineer Intel Vancouver, May 2019 - Present

❯ Developed C++ and SystemC software simulation models of SSD hardware designs for pre-silicon software development, HW/SW co-validation, and architectural exploration

❯ Maintained Teamcity continuous-integration infrastructure for a team of 30+ developers, creating mandatory build chains and debugging critical failures on-the-spot

❯ Managed a Chocolatey Windows package management system with Powershell scripts to automate package install, update, and setup for a combined 100+ developers

❯ Wrote extensive documentation for numerous applications, including in-house Chocolatey patches and Teamcity agent bringup

❯ Created a Gradle build to validate git branches, preventing outdated submodule pointers and branches from wasting continuous integration resources

Manufacturing R&D Engineer Tekmar Control Systems, 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 down two-thirds and test stand costs down to one-tenth of original cost

❯ Designed and built a unique slide-in test stand to solve electrical contact alignment issues with OEM product line

❯ Created action plan to fully automate temperature sensor product line in our manufacturing plant and negotiated equipment deals with Chinese equipment manufacturers

❯ Redesigned LCD enclosures in SolidWorks to solve major alignment issue affecting user interface for boiler control product line

❯ Ported older PCB products to accommodate new enclosures and FCC electromagnetic certification requirements

DESIGN TEAM

Electrical & Power Systems Lead UBC Orbit, Jan 2016 - Sept 2018

❯ Led power management and electronic systems design for UBC's micro-satellite design team

❯ Developed I^2C communication interface in C to retrieve telemetry from and communicate with power system and battery modules

❯ Simulated satellite flight paths in Systems Tool Kit, parsing raw communication access and telemetry data for a two year period using MATLAB

❯ Modeled satellite power consumption with a state machine and created a power simulation model of 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

CONTACT

◉ Vancouver, BC

▯ 778-895-6262

✈ kvn.wang.25@gmail.com

github.com/Gunner62

linkedin.com/in/kw62/

SOFTWARE

</> C, C++, & System C

</> Assembly (8051)

</> Java

</> MATLAB

</> Gradle

</> Python

</> Powershell Scripting

</> Unix Environments

</> HTML & CSS

</> JSON

</> NodeJS

⑁ Git

⚡ Arduino & Raspberry Pi

MODELING TOOLS

⚡ Altium Designer

⚙ SolidWorks

⚡ NI Multisim

⚡ Quartus Prime

MANUFACTURING

⚡ PCB Assembly

⚙ 3D Printing

⚙ CNC Machining

HOBBIES

🎮 Competitive Gaming (Ask Me!)

🗄 Farming

🎵 Piano

⊗ Badminton