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
- Coded in a Git repository containing three submodules with a high-velocity, agile methodology

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 style test in 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

- Handled power management and electronic systems design for UBC's micro-satellite design team, becoming lead in the end of 2017
- Developed I2C 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 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 lifetime 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
- 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