Tony Wu

2B Electrical Engineering Student

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Skills

Languages: C, C++, Perl, Python
Lab Equipment: Multimeter, Oscilloscope, Soldering Station, Function Generator
Tools: Eclipse, Git, MATLAB, Photoshop, Visual Studios
OS: OS X, Windows, Linux

Experience

SkyWave an ORBCOMM Company — Ottawa, Ontario
Hardware Test Automation Intern — January - April 2015

- Led the transition from VB.NET and C# to IronPython for more easily modifiable test scripts
- Developed a hardware testing suite for analyzing power consumption of Skywave satellite terminals — *IronPython, Visual Studios, WPF, ZedGraph*
- Ran tests with a satellite terminal in a simulated environment and collected realistic data logs to verify testing suite reliability and accuracy
- Created documentation for communicating with SCPI-enabled testing equipment with a library created by the software team and IronPython
- Presented testing suite to both the hardware and software teams for code and feature review

General Electric — Markham, Ontario
Hardware Design Validation Intern — May - August 2014

- Tested various EEPROM flash chips for faults
- Created scripts to reformat data logs and present outlier data for analysis — *Perl, SQL*
- Programmed EEPROM, FPGA, and NOR flash and provided detailed instructions for customer and manufacturing use — *Various hardware programmers: Altera USB-Blaster, Xilinx Platform USB*
- Implemented the setup of two gateways in a network configuration application — *C, Perl*
- Determined the cause of a broadcast storm on a fiber/copper mixed media network card

Projects

Various Arduino Side Projects

- Created various circuits/projects with an Arduino Uno
- Pictures, descriptions and code available at: *www.tonyhuiwu.com/projects*

Microcontroller Circuit (PIC18)

- Designed and built a circuit to control an LCD display

Education

University of Waterloo — Waterloo, Ontario
Candidate for Bachelor of Applied Science — September 2013 - Present

IB Diploma Programme — September 2011 - May 2013