**Emmett Lam**

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**EDUCATION**

**University of Washington** Seattle, WA **Sep 2011 – Dec 2015**

***B.S. Electrical Engineering: Embedded Computing Systems***

**HIGHLIGHTS**

* Excellent interpersonal and communication skills
* 3 years of software development (2 years embedded, 1 year web/systems)
* Strong C/C++ programming skills and fundamental understanding of computer architecture
* Ability to quickly adapt to new technologies and work environments
* Team player, able to work on diverse teams both on and off-site
* Demonstrates time-management and proven track-record of meeting customer deadlines

**SKILLS**

**General**

* C programming for embedded systems
* MPC565, MSP432 embedded platforms
* Firmware design and development
* Implementation of time-sensitive interrupt systems
* Memory corruption and protection measures
* Communication protocols (UART, SPI, I2C)
* Version control systems (Git, IBM Synergy)
* PIC microcontroller development
* Verilog FPGA development
* Caching and memory system design

**Languages**

* C, C++, Java, Visual Basic, MATLAB, Verilog

**Tools**

* Git, Eclipse, LabVIEW, MATLAB, Quartus, Linux, Windows

**EXPERIENCE**

**Crane Aerospace & Electronics *Embedded Software Engineer* Feb 2016 – Present**

* Create low-power embedded systems (MPC565 platform) for processing analog sensor input
* Design software requirements to be agreed upon by customer (IBM Rational DOORS)
* Develop safety-critical production software (C, Eclipse, Visual Studio)
* Conduct software unit test (C++) against target hardware simulator
* Perform internal design/code reviews

**Crane Aerospace & Electronics *Systems Engineering Intern* Jun 2015 – Sep 2015**

* Performed verification tests of the door sensing system to be deployed on the COMAC C919 commercial aircraft
* Documented overall system requirements and designed test procedures to verify these were met
* Worked on Visual Basic tools which communicated with LabVIEW tools on development units to examine input and output signals
* Produced tool documentation to qualify the VBA tools according to FAA industry standards. Documented tool requirements and test procedures performed

**Faithlife / Logos Bible Software *Web Development Intern* Jun 2014 – Sep 2014**

* Developed five interactive web-applications for integration with the Logos 6 platform
* Mentorship program and performed weekly code review and demonstrations
* JavaScript, CSS/Less, jQuery, D3, Handlebars.js, Grunt, Bower, Node.js

**King’s High School** Shoreline, WA ***FIRST Robotics Mentor* Sep 2011 – Present**

* Volunteer software mentor teaching introductory C programming to high school students
* Assist in requirement analysis, brainstorming, design, and competition phases of the season