**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 embedded software development experience working in highly-regulated industries
* Strong C/C++ programming skills and understanding of computer architecture
* Real-time Linux system development on ARM platforms
* Experience managing build systems and remote agent administration
* Demonstrates time-management and proven track-record of meeting customer deadlines

**SKILLS**

**General**

* C/C++ for embedded systems
* Python/Bash scripting for task automation
* Git version control system workflow
* Build systems administration (Jenkins, Bamboo)
* Aerospace communication protocols (ARINC 429)
* Static code analysis tools (Klocwork, LDRA)
* Communication protocols (UART, SPI, I2C)
* ARM microcontroller development
* Real-time Linux OS platforms
* AWS/remote instance administration

**Languages**

* C, C++, Python, Bash, Java, JavaScript, Visual Basic

**Tools**

* Git, JIRA, Bamboo, Jenkins, Node.js, Klocwork, Eclipse

**EXPERIENCE**

**Kestra Medical Technologies Inc. *Embedded Software Engineer*** **March 2018 – Present**

* Develop wearable medical devices for monitoring and resuscitation of patients at risk of sudden cardiac arrest
* Administration of Bamboo build system for unit test automation and deployment of production software
* Automate Klocwork static code analysis reports upon Git check-ins and SW releases
* Integrate new features and bugfixes for C++ applications running on real-time Linux system
* Develop SW component test scripts (Python) for system requirement verification

**Crane Aerospace & Electronics *Embedded Software Engineer I* 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**

* Verification testing of the Door Sensing System to be deployed on the COMAC C919 commercial aircraft
* Developed mixed VBA and LabVIEW tools for simulating input and output signals on Automated Test Equipment
* Produced tool qualification documentation per FAA industry standards. Documented requirements and test procedures performed

**King’s High School** Shoreline, WA ***FIRST Robotics Mentor* 2011 – 2016**

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