**Emmett Lam**

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**EDUCATION**

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

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

**HIGHLIGHTS**

* 4 years embedded software development experience working in highly-regulated industries
* Strong C/C++ programming skills and understanding of computer architecture
* Linux platform development on ARM microcontrollers
* Build systems and remote agent administration
* Excellent interpersonal and communication skills
* Demonstrates time-management and proven track-record of meeting customer deadlines

**SKILLS**

**General**

* C/C++ for embedded systems
* Embedded Linux platforms
* Python/Bash scripting for task automation
* Git version control system workflow
* Build systems administration (Jenkins, Bamboo)
* Small team management and scrum leadership
* Static code analysis tools (Klocwork, LDRA)
* Communication protocols (UART, SPI, I2C)
* ARM microcontroller development
* 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. *Lead Embedded Software Engineer*  Mar 2019 – Present**

* Lead bi-weekly scrum for team of 6 software engineers, both on and off-site
* Train new team members on requirements-based testing methodologies
* Communicate test coverage metrics to management
* Produce requirements-based verification protocols
* Develop automated test scripts (Python)

***Embedded Software Engineer*** **Mar 2018 – Mar 2019**

* Integrate new features and bugfixes for C++ applications running on real-time Linux system
* Administration of Bamboo build system for unit test automation and deployment of production software
* Automate Klocwork static code analysis reports upon Git check-in and SW releases

**Crane Aerospace & Electronics *Embedded Software Engineer I* Feb 2016 – Feb 2018**

* 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

***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