# 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