Emmett Lam

425-286-7699 · lam.emmett@gmail.com
lamemmett.github.io · **Linkedin**.com/in/emmettlam

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*** **Mar 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 – 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

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