

# Emmett Lam

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## EDUCATION

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**University of Washington** Seattle, WA  
**B.S. Electrical Engineering: Embedded Computing Systems**

Sep 2011 – Dec 2015

## HIGHLIGHTS

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- Excellent interpersonal and communication skills
- Organized, detail-oriented, reliable, hard-working
- 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

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### Languages

- HTML, CSS, Less, JavaScript, jQuery, AngularJS, JSON, PHP, SQL, Java, Python, Visual Basic, C, C++, C#

### Tools

- Git, Node.js, NPM, Grunt, Bower, Bash, Vim, Linux, Windows
- IBM Rational Unified Process (RUP): DOORS, Change, Synergy

### General

- Performance and scalability optimization
- User experience and interactive tool design
- Version control and peer review process
- Agile/Scrum methodology
- Dynamic, responsive web design
- Ajax/JSON API integration

## EXPERIENCE

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|--|-----------------------------------|----------------------------|
| <b>Crane Aerospace &amp; Electronics</b>   | <b>Embedded Software Engineer</b> | <b>Feb 2016 – Present</b>  |
| <ul style="list-style-type: none"><li>• Create low-power embedded systems (MPC565 microprocessor) for processing analog sensor input</li><li>• Design software requirements to be agreed upon by customer (IBM Rational DOORS)</li><li>• Develop safety-critical production software (C, Eclipse, Visual Studio)</li><li>• Conduct software unit test scripts (C++) against target hardware simulator</li><li>• Perform internal design reviews between each development phase</li></ul>   |                                   |                            |
| <b>Crane Aerospace &amp; Electronics</b>   | <b>Systems Engineering Intern</b> | <b>Jun 2015 – Sep 2015</b> |
| <ul style="list-style-type: none"><li>• Performed verification tests of the door sensing system to be deployed on the COMAC C919 commercial aircraft</li><li>• Documented overall system requirements and designed test procedures to verify these were met</li><li>• Worked on Visual Basic tools which communicated with LabVIEW tools on development units to examine input and output signals</li><li>• Produced tool documentation to qualify the VBA tools according to FAA industry standards. Documented tool requirements and test procedures performed</li></ul> |                                   |                            |
| <b>Faithlife / Logos Bible Software</b>  | <b>Web Development Intern</b>     | <b>Jun 2014 – Sep 2014</b> |
| <ul style="list-style-type: none"><li>• Developed five interactive web-applications for integration with the Logos 6 platform</li><li>• Participated in Agile Software Development, including sprints, scrums, daily standups, etc</li><li>• Mentorship program and performed weekly code review and demonstrations</li><li>• JavaScript, CSS/Less, jQuery, D3, Handlebars.js, Grunt, Bower, Node.js</li></ul>   |                                   |                            |
| <b>King's High School</b> Shoreline, WA  | <b>FIRST Robotics Mentor</b>      | <b>Sep 2011 – Present</b>  |
| <ul style="list-style-type: none"><li>• Volunteer software mentor teaching introductory C programming to high school students</li><li>• Assist in requirement analysis, brainstorming, design, and competition phases of the season</li></ul>  |                                   |                            |