

# Drew M. Johnson

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## Work Experience

- Software Engineer**, Spectralux Avionics, Redmond, WA June 2015 – Present  
Working closely with a team of engineers focused on planning, design, and development of software for avionics embedded systems (Mixed C/C++ for STM32 platform); Creation and continued maintainance of several internal DevOps tools to expedite software development; Facilitated company transition to new requirements and configuration management solutions
- Supervising Technician**, PLU Instructional Technologies, Tacoma, WA May 2013 – May 2015
- Student Technician** September 2012 – May 2013  
Was responsible for providing media support for events and productions in the areas of audio recording, sound reinforcement, duplication, television production, delivery and set up of audio, television and media equipment both on and off campus, as well as supervising and training student technicians

## Technical Skills

- ❖ Languages: C/C++, Java, Perl, Python, Assembly (various), JavaScript, MATLAB, VHDL
- ❖ Skills: Embedded Systems, Android, Eclipse & Visual Studio IDEs, GitHub, Version Control, Continuous Integration, Agile and Waterfall Methodologies
- ❖ Intermediate experience working with digital and analog electronic design and construction

## Education

- Pacific Lutheran University**, Tacoma, WA May 2015  
Bachelor of Science in Computer Engineering and Computer Science 3.27 GPA  
Minor in Mathematics  
Dean's List Fall 2011 – Spring 2013  
ACM Intercollegiate Programming Contest Team 2013-2014  
Relevant Coursework:

Data Structures, Programming Languages, Algorithms, Software Engineering, Assembly Language, Computer Architecture, Computer Networks, Discrete Structures, Digital Systems, Linear Algebra, Electrical Circuits, Microelectronics

### Projects:

- Arduino-based Drum Kit Sequencer** (Spring 2012): Physically interfacing MIDI sequencer with visual feedback and tempo control
- Class Registration Assistant** (Fall 2012): Scrapes class-information from PLU websites and gathers it for easy view and analysis, written using Groovy
- Multistage Audio Amplifier** (Fall 2013): Op-amp based audio amplifier designed to drive low-impedance speakers
- “Linear AlgeBot”** (Fall 2013): Autonomous rover that uses GPS coordinates and linear algebra to navigate a circle
- Inventory Management Android Application** (Spring 2014): Team-based software engineering project designed to handle the inventory of a clothing co-op
- EEG-Responsive AI-Controlled Rover** (Fall 2014-Spring 2015): Senior Capstone project, thorough design and documentation, proof of concept implementation