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Education			
Rose-Hulman Institute of Technology Science and Engineering Magnet	B.S in Electrical Engineering High School	Feb 2011 May 2007	3.1/4.0 3.2/4.0
Work Experience			

• Field Consultant Engineer

July '11 - Now

Green Hills Software, Santa Barbara CA

- Provided technical support for embedded development tools including a JTAG probe, C/C++ compiler, breakpoint and trace debugger, and real-time operating system
- Helped customers debug difficult problems related to embedded programming, requiring an in-depth knowledge of the C language and operating system concepts
- Wrote testcases in C and C++ to reproduce behaviors based on customer's descriptions
- o Communicated with customers daily to convey technical concepts in accessible language
- Became an in-house expert on the operating system, helping answer to the most difficult questions on the operating system from the salesmen and other support engineers
- Managed 3-5 short term projects simultaneously, while simultaneously managing problems requiring months of debugging
- Updated a comprehensive changelog for certification purposes
- Wrote several small programs in C, C++, and Python, as well as technical articles to help solve common problems

• Validation Intern June'10-Aug'10

Freescale Semiconductor, Austin TX

Tested and demonstrated new features on dual core automotive chip

• Integration Intern

June'09-Aug'09

Northrop Grumman, El Segundo CA

• Wrote radio abstraction layer for real-time operating system on aerial refueling test plane

Side Projects

Green Light Props

May '12 - Now

Santa Barbara CA

greenlightprops.com

- Founded company to design and manufacture smart LED dance props
- Designed custom PCB with an ARM based chip with an 802.15.4 radio, accelerometer, LED driver, and charges through USB
- Molded round rubber enclosure to resist high impact and diffuse light from LEDs
- o Architected firmware in C including a lightweight, low power mesh network
- Programmed gesture recognition test program in Qt5 and OpenGL to visualize patterns
- Configured web server, mail server, and forum for discussion on the prop's design

Programming Proficiency

• Languages (C, C++, Java, Python, Asm, Shell), **OS** (INTEGRITY, Contiki, TinyOS, Linux, Windows) **Tools** (git, EAGLE, MATLAB, SPICE)

Other Interests

Private Pilot License, Feb 2014 Instrument rating, In progress 200hr TT Poi, Juggling, Ballet, Dance (seperate resume available)