

JEFFREY BECKMAN
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Education

Rose-Hulman Institute of Technology	B.S in Electrical Engineering	Feb 2011	3.1/4.0
Science and Engineering Magnet	High School	May 2007	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 embedded programming problems on ARM, PowerPC, and x86
 - Wrote testcases in C and C++ to reproduce behaviors based on customer's descriptions, requiring an in-depth knowledge of hardware, C language, and operating system concepts
 - 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 5-10 short and long term projects simultaneously
 - 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, demonstrated and documented new features on dual core automotive chip
- **Software 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
 - 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) **Arch** (ARM, PowerPC, x86, MIPS, Coldfire) **Tools** (git, svn, gdb, EAGLE, MATLAB, Maple, SPICE) **Hardware** (reverse engineering, SMT rework, high-speed digital, high-speed analog)

Other Interests

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