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 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
  - 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 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

- **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) **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)