JEFFREY BECKMAN

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Education

Rose-Hulman Institute of Technology	B.S in Electrical Engineering	Feb 2011	3.1/4.0

Work Experience

- **Firmware Engineer** — **Aug '17 - Now**
  Fitbit, San Diego CA
  - Authored custom platform independent drivers for tightly constrained embedded system
  - Implemented a comprehensive full-stack debugging solution for eliminating crashes and producing key performance metrics, ultimately realizing a stable firmware platform
  - Provided on-site manufacturing support, significantly improving yields and quality above industry standards for a new flagship product
  - Maintained code base and build systems for multiple cross-platform systems
  - Lead cross functional manufacturing support team to develop lasting procedures and tools

- **Field Consultant Engineer** — **July '11 - May '17**
  Green Hills Software, Santa Barbara CA
  - Provided expert support for embedded development tools including RTOS, C/C++ compiler, debugger, and probe.
  - Conveyed technical concepts to customers through code samples and accessible language
  - Optimized slow performing embedded code to dramatically shorten RTOS boot times
  - Consistently provided solutions to complex issues in time critical situations

- **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**
  - Personal design, manufacturing, and repair for smart LED dance props
  - Designed custom PCBs for wireless sensors and interactive devices
  - Programmed gesture recognition test program in Qt5 and OpenGL to visualize patterns
  - Built iOS app for vision impaired users to read playing cards using OpenCV
  - Engaged in contract work for clients needing custom engineering

Programming Proficiency

- **Languages** (C, C++, Asm, Python, Javascript, Go, Rust, Java, Make, Bash, Chinese, Japanese)
  RTOS (Nuttx, INTEGRITY, Contiki, Linux) **Tools** (git, svn, gdb, MATLAB, LabView, SPICE)
  Hardware (soldering, reverse engineering, SMT rework, high-speed digital, analog)

Other Interests

Private Pilot License	40 hr PIC	130hr TT	Feb 2014
Juggling, Dance, Choreography			Jan 2010
Performance Arts resume available upon request			
Computer Security, CTFs, DEFCON			Aug 2012