

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

- **Software Development Engineer L5** April '19 - Now
Amazon Lab 126, Austin Tx
 - Delivered platform agnostic API for devices to maintain a secure and persistent connection to AWS IoT using an MQTT client
 - Improved build times and developer experience for users of common code packages
 - Architected mechanism for intake of external SDKs into common code base
- **Firmware Engineer** Aug '17 - Feb '19
Fitbit, San Diego CA
 - Authored custom platform-independent drivers for tightly constrained embedded system
 - Programmed a full-stack IoT application using assembly, C, Python, SQL, and Javascript to visualize and investigate key metrics and provide firmware and platform stability
 - Lead on-site support team at the factory in China, significantly improving yields and quality above industry standard
- **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.
 - Optimized slow performing flash boot times to dramatically improve performance for large automotive customers
 - Managed compiler product's changelog necessary for certification of safety critical products
- **Validation Intern** June'10-Aug'10
Freescale Semiconductor, Austin TX
- **Software Integration Intern** June'09-Aug'09
Northrop Grumman, El Segundo CA

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, Python, Rust, Asm, Vue.js, Ruby, SQL, Perl, Make, Bash) **RTOS** (FreeRTOS, Yocto, Nuttx, INTEGRITY, Contiki, Android) **IoT Protocols** (MQTT, Zigbee, Bluetooth, Wifi, TLS) **Web** (AWS, Severless, GraphQL, WebASM, Bootstrap) **Hardware** (Design for Manufacturing, PCB Design, SMT rework, high-speed digital)

Other Interests

Private Pilot License 40 hr PIC 130hr TT Feb 2014
Juggling, Dance, Choreography Jan 2010
Performance Arts resume available upon request