

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
 - Externalized build automation by porting build steps from custom Amazon CI tool into 3rd party accessible tooling and authoring extensive documentation for customer onboarding
 - Created crash reporting automation tool used to increase device stability on new operating system by reducing total number of freezes and crashes
 - Designed and implemented stability KPI reporting for new operating system used by QA to sign off on releases and for executive leadership to estimate program velocity
 - Built device middleware features for multiple time synchronization components
 - Delivered platform agnostic API for devices to maintain a secure and persistent connection to AWS IoT using an MQTT client
 - Personally involved in shipping several successful devices to millions of customers with consistently high customer ratings
- **Firmware Engineer** **Aug '17 - Feb '19**
Fitbit, San Diego CA
 - Authored multiple custom drivers for uniquely constrained embedded system
 - Delivered an operational metrics reporting system by building a new full stack IoT application which resulted in improved 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 in depth custom support for embedded development tools including RTOS, C/C++ compiler, debugger, and probe for crucial customers
 - Optimized slow performing flash boot times to dramatically improve boot time 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

- **Custom Prop Engineering**
 - Personal design, manufacturing, and repair for smart LED dance props
 - Designed custom PCBs for wireless sensors and interactive devices
 - Programmed gesture recognition test program to visualize patterns
 - Built iOS app for vision impaired users to read playing cards

Programming Proficiency

- **Languages** (Rust, C, C++, Asm, Python, Ruby, Typescript, Vue.js, Svelte, SQL, Make, Bash)
- **OS** (Embedded Linux, Yocto, FreeRTOS, Nuttx, INTEGRITY, Contiki, Android)
- **IoT Protocols** (MQTT, Thread, Wifi, Bluetooth, Zigbee, Cellular, LoRa, GPS)
- **Hardware** (Industry 4.0, Device Manufacturing, PCB Design, SMT rework, high-speed digital)
- **Other Interests** (Private Pilot License 130hr TT, Juggling, Ballet and Contemporary Dance)