JEFFREY BECKMAN

JeffLBeckman@gmail.com

https://github.com/jefflbeckman

Austin, Tx 78758 Mobile: **(214)-477-4069** 

11600 Barchetta Dr

**Education** 

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

## **Work Experience**

# • Device OS Software Engineer

April '19 - Now

Amazon Lab 126, Austin Tx

- Improved the cost efficiency of the expansive CI/CD deployment pipeline for the largest internal project at Amazon while also adding support for security and static code analysis across distributed teams
- Created crash reporting and debugging automation tools used to triage and reduce total number of freezes and crashes
- Defined OS debugging, triage, and stability KPI reporting procedures for greenfield operating system used by thousands of developers to rapidly debug complex issues
- Designed and implemented a platform agnostic API for IoT devices to maintain a secure and persistent connection to AWS IoT using an MQTT client

# • OS Firmware Engineer

Aug '17 - Feb '19

Fitbit, San Diego CA

- Brought original operating system to market for the Charge 3 and Inspire 2 products in under
   12 months that reduced BOM costs and power requirements for the SoC by half
- Implemented a low-power efficiency focused logging and metrics observability IoT solution to debug and eliminate crashes
- Lead on-site support team at the factory improving production yields and ensuring an exceptional quality bar for the flagship Charge 3 product

### Field Consultant Engineer

July '11 - May '17

Green Hills Software, Santa Barbara CA

- Provided in depth custom technical support for embedded development tools including RTOS, C/C++ compiler, debugger, and probe
- Optimized slow performing flash boot times to dramatically improve boot time performance for large automotive customers

# • 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

- o Personal design, manufacturing, and repair for smart LED dance props
- o 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)