

JEFFREY BECKMAN
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Work Experience

- **Software Development Engineer** April '19 - Jan '24
Amazon Lab 126, Austin Tx
 - Gathered developer metrics for build times, MTTR, MTTD, and more through integrating Yocto and AWS
 - Produced a Triage Guide and forensic tools for Yocto based OS that is used daily by hundreds of QA's and engineers for detecting and debugging issues
 - Delivered integrated 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 for timezone synchronization, LED control, frustration free setup
 - 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

Technical Skills

- **Languages** (Rust, C, C++, Asm, Python, Ruby, Typescript, Vue.js, Svelte, SQL, Make, Bash)
- **OS** (Embedded Linux, Yocto, FreeRTOS, Nuttx, INTEGRITY, Contiki, Android)
- **DevOps** (AWS Cloud, Terraform, IaC, Jenkins, Github, Docker, Kerberos, Gerrit)
- **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)

Education

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