

ERICA WARD

Embedded Software Engineer

✉ e.ward@email.com

☎ (123) 456-7890

📍 Sunnyvale, CA

🌐 [LinkedIn](#)

WORK EXPERIENCE

Embedded Software Engineer

Amazon Lab126

📅 2020 - current

📍 Sunnyvale, CA

- Developed embedded software for 6 new consumer electronics products using Keil µVision which **booted 9 seconds earlier** compared to previous innovations.
- Designed SPI communication protocols for quick data transfer between embedded systems and peripherals, keeping data transmission errors at an all-time low of 1.4%.
- Conducted detailed code reviews to maintain code quality, slashing instances of post-release bug reports by 22%.
- Incorporated continuous integration with Buildroot for automating tasks, helping Amazon's agile team release a product 2 weeks before deadlines.

Systems Engineer

SpaceX

📅 2020 - 2022

📍 Hawthorne, CA

- Implemented ARM-based firmware solutions for satellite communication modules, maintaining a 97.2% reliability rate in establishing communication links.
- Managed configuration management processes on SVN, facilitating easier collaboration with engineering teams.
- Engineered LLVM compiler configurations for aerospace applications, optimizing code for spaceborne processors while keeping **memory footprint at a maximum of 27%**.
- Used hardware abstraction layers (HAL) for sensor interfaces, ensuring compatibility for 4 spacecraft platforms.

Technical Support Representative

Google

📅 2018 - 2020

📍 Mountain View, CA

- Maintained Google's internal knowledge base, lowering the average needed to handle support requests by 28 minutes.
- Assisted customers in debugging the browser's interface, decreasing overall system downtime by 8.3%.
- Guided the internal team for VHDL-based projects, resulting in a **36% increase in on-time project completion rate**.
- Helped customers in configuring the search engine to their location, helping them get 79% more accurate search results.

EDUCATION

Bachelor of Science

Electrical Engineering

Stanford University

📅 2014 - 2018

📍 Stanford, CA

SKILLS

- Keil µVision
- ARM
- Micrium µC/OS
- SVN
- SPI
- In-circuit Emulators
- LLVM Compiler Infrastructure
- VHDL
- Buildroot
- Simics