Evan Lojewski

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Education

University of Colorado, Colorado Springs

B.S. IN ELECTRICAL ENGINEERING, MINOR IN COMPUTER SCIENCE GRADUATE LEVEL COURSES IN COMPUTER SCIENCE

Skills

Programming Embedded firmware using C/C++, Assembly (x86, ARC), Make and CMake based build systems, Testing Applications Altium PCB Designer, Jenkins Continuous Integration, Gerrit Code Review, PCLint static analysis **Operating Systems** Linux, Windows, and macOS including device driver development Other Skills Prototyping and debugging PCBs including capture and layout Languages English

Experience

Apple Inc.

SYSTEMS FIRMWARE ENGINEER - INCUBATION

- · Modified bootloaders and existing firmware for new product developments
- Designed new embedded software used on multiple FPGA soft-CPUs (LM32, Microblaze)
- Enabled simulation environments for cross-functional partners to begin early development

EM Microelectronic-US Inc.

SR. STAFF FIRMWARE DESIGN ENGINEER

- System architect and Lead Designer for mass market products (optical sensors, magnetomiters, sensor fusion)
 - Sensor Fusion firmware used in six different ASICs, designed for extensibility and portability.
 - Created customer SDKs to allow for customer extensibility
 - Optical Sensor firmware enabled sharing code amungst family of sensors, superseding legacy model
- Customer sales and support visits
 - Assisted customers with bringup of devices.
 - Joined the sales team on pitching devices and technical support.
- Managed remote site employees (transatlantic)
- Monitored software builds and firmware quality
- Setup development servers with
 - Gerrit Code Review, Phabricator (git and svn servers)
 - Jenkins, Build Bot (continuous integration)
 - PCLint, Coverity (static analysis)

EM Microelectronic-US Inc.

Associate Engineer

- · Customer support via phone, email and in person visits.
- Developed internal tools for testing and qualification of ICs.
- Software development for microcontrollers and websites.

Extracurricular Activity

Reimplemented firmware for BCM5719 NICs

HTTPS://GITHUB.COM/MEKLORT/BCM5719-FW

- Implemented replacement firmware for the MIPS processor performing early bringup of the MII attached PHY (RX CPU).
- Implemented replacement firmware for the ARM processor, handling NC-SI communication (APE CPU)
- Enabled firmware updates via the Linux Vendor Firmware Service.

Publications

LwProf: Lightweight Profiling and Coverage Tool for Embedded Software

A NEW TOOL FOR ENABLING TEST COVERAGE METRICS ON EMBEDDED SYSTEMS.

http://cs.uccs.edu/~kjustice/papers/ESC4300Evan.pdf

Cupertino, California, USA

Oct. 2022 - Present

Colorado Springs, Colorado, USA

Colorado Springs, Colorado, USA Fall 2009 - Dec. 2011

> ESCS'2018 July 28th - Aug 2nd

2018 - Present

Colorado Springs, Colorado, USA December 2011 2017 - 2018

Jan. 2012 - Sep. 2022