ROBERT SMITH

Senior Embedded Software Engineer/Developer

info@qwikresume.com | https://Qwikresume.com

Extensive background in Linux. worked on everything from networking, servers, workstations, semi-embedded, and embedded systems. specialize in doing things that have never been done before or are just beginning to be developed. strengths include software development at all levels from kernel to GUI and system customization from kernel configuration to complete OS building from the ground up.

AUGUST 2005 – JUNE 2014

SENIOR EMBEDDED SOFTWARE ENGINEER/DEVELOPER - ABC CORPORATION

- Developed the software solution supporting USB connectivity in PCs and embedded systems.
- Ported and developed various low-level USB device controller drivers and host controller drivers in register level.
- Involved in supporting the following USB silicon Synopsys DesignWare 2.0/3.0, PLX USB3382, Mentor HDRC, ST-Ericsson 1362/1583/1761, Freescale IMX, Epson S1R72005, Renesas R8A66597, EHCI, and XHCI.
- Performed a leading role in developing USB 2.0 OTG controller drivers that meet USB-IF OTG test along with vendor specific devices such as Apple.
- Involved in developing and improving MCCI USB device function drivers and USB host class drivers including mass storage, HID, audio, modem, VSC, and network drivers in the embedded systems.
- Developed and maintained Windows kernel drivers to support several USB 2.0/3.0 host and device controllers.
- Developed Windows host and device drivers in the MCCI USB HSIC Protocol Analyzer and Verification System.

2004 – 2005

SENIOR EMBEDDED SOFTWARE ENGINEER - DELTA CORPORATION

- Test procedures for Intel I7 hardware Red Hat Linux 7.1 used on armored fighting vehicles.
- RHEL Linux 6.4 installation used on Army JV5 vehicle computers.
- Developed CyberOptics first embedded software codebase using a microBlaze FPGA controller which is now the core design for current product .
- Completed the ground-up embedded software development for an IEEE 1394 fiducial camera which was later the basis for five subsequent camera products.
- Implemented a CAN Bus communication interface on a component alignment sensor.
- Established development processes for the entire embedded software group

and setup a wiki site to share guidelines not defined directly by .
- Designed and wrote embedded software in C++ for commercial audio devices.

EDUCATION

M.S. in Computer Science & Engineering - (SUNY Binghamton University)

SKILLS

MS Office