ROBERT SMITH

Senior Embedded Software Engineer I

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SUMMARY

Strong C programming skills with more than 10 years of expertise in well structured and documented analysis, design and coding. Quick learner, detail oriented, strong analytical and problem solving skills and a good team player. Excellent problem-solving and troubleshooting skills. Ability to rapidly analyze problems and generate innovative solutions. Experienced with Agile/SCRUM methodologies in Software Development.

CORE COMPETENCIES

C, C++, Android, Embedded Linux.

PROFESSIONAL EXPERIENCE

Senior Embedded Software Engineer I
Echostar Technologies - June 2005 – 2020

Key Deliverables:
- Designed, developed, and maintained software for real-time satellite TV set-top box (STB) receivers running Embedded Linux.
- Experienced with different smart cards and knowledge of authentication process.
- Maintained current software and design new software according to requirement.
- Experienced using embedded tools including JTAG emulators & ST Microconnect for debugging.
- Worked on MIPS (Broadcomm) and ST based processors running Embedded Linux.
- Related Projects Bell IP-VOD Implementation/Support Implement an API for the UI which downloads information from a catalog server.
- Responsible for Event Info / Search / Purchase APIs.

Senior Embedded Software Engineer
Delta Corporation - 2003 – 2005

Key Deliverables:
- Worked on a head-end cable server application based on a modified Red Hat Linux OS.
- Developed further understanding of the cable system and how the head-end works to deliver programming to the set-top box.
- ResponsibilitiesOS configuration, source tree and build management, watchdog application, OS or Linux-specific components, worked with POSIX threads,.
- Android porting, Customization of Android AOSP, C, C++ based application, maintaining GIT repository Skills Used Embedded Linux, Android, C, C++, .
- Lead C++ programmer of 4, especially drivers, multithreading, debugging, using C++ classes debug existing hardware / some custom additions to .
- DO-178B/C SEAL 1 artifact tests for Mission Systems Integrity Model OFP - Provided 100% code coverage for mission integrity monitoring unit tests, .

- Developed C++ for embedded application residing within a medical device with Sharp LH7A404 microcontroller (based on ARM9 core) and ThreadX RTOS.

EDUCATION

- M.S. in Electrical & Computer Engineering - (University of Colorado - Boulder, CO)