ROBERT SMITH

Sr. Embedded Engineer

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SUMMARY

7+ years of experience in various aspects of system architecture, algorithm, and software design, development, implementation, validation and knowledge of C/C++, UNIX, Perl, and other applications. Software programming/testing professional with in-depth telecommunications equipment experience Skilled experience in C/C++ and Assembly programming in embedded applications including simulators, real time, firmware etc.

CORE COMPETENCIES

Languages Embedded C, C++, Assembly, Java, Visual Basic,.

PROFESSIONAL EXPERIENCE

Sr. Embedded Engineer
ABC Corporation - May 2012 – December 2012

Key Deliverables:
- Researchs, designs, and leads firmware development on hearing aid accessories.
- Collaborates with peers on released projects, research projects and advanced development projects.
- Effectively manages projects and communicate status to appropriate outside groups and management.
- Creates/ modifies technical specifications, verification, and validation documents.
- Designed firmware in C on the OMAP processor running embedded Linux with U-boot bootloader.
- Configured kernel and firmware to create a virtual serial COM over USB as the interface to perform firmware updates.
- Researched and developed USB drivers (INF files) to support the USB device.

Embedded Engineer
Delta Corporation - 2011 – 2012

Key Deliverables:
- Design and development of state-of-the-art infotainment systems, on a Linux/QNX OS to support Wi-Fi, Bluetooth, smart phone app integration, hi-res LCD touchscreen displays, capacitive sense keypads, and highly advanced speech recognition.
- Design of real time multi-process, multi-threaded embedded software, using C/C++ for multi core CPUs and multiple processor system (ARM, TI) Design communication protocols and device/platform drivers (CAN, UART, USB, audio, Bluetooth, IP network, Wi-Fi] Modified RTOS (uCOS-II) code to support current products that controlled the new devices.
- Implemented, tested and designed low-level drivers (DMA, ISR peripheral routines, A/D, and TTL serial communication routines) to connected peripherals.
- Developed and maintained revisions of technical documents which include product specs and firmware test plans that verify feature functionality of the product.

- Provided technical support/troubleshooting of product failures for existing customers and production personnel.
- Self-Employed, Contract Designed hardware and software for a consumer product using accelerometers and lasers.
- Designing and building the hardware and software for an autonomous underwater robot.

EDUCATION

- Bachelor of Engineering in Electronics & Communication Engineering - (Anna University)