

Robert Smith

Embedded Engineer

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SUMMARY

Experienced and versatile embedded engineer with proven skills to design, develop and implement firmware, software, and electro-mechanical solutions. Successfully developed a prototype medical device for detection of certain inner ear diseases; electrical and mechanical re-design of a cellophane wrapper to detect distinct batch orders, and the software design and development of an air-purifier.

SKILLS

Firmware, RF, Device Driver, Python, C++, Android.

WORK EXPERIENCE

Embedded Engineer

ABC Corporation - 2019 - 2020

- Designed innovative electronic control systems, utilizing cutting-edge microprocessors, device drivers, and peripherals, data acquisition and communications hardware, and related real-time systems software using c/c++, assembly, capl, and canoe.
- Configured the mplayer source code for target architecture and put all the shared libraries on target root file system. <b.
- Created root file system with various directories list by using file system utility busybox and create jffs2 file system.
- Involved in ucm-aic interface testing using pcan, write test cases in excel.
- Designed and implemented built-in self-test (bist) into the digital television set-top box, installed a multitasking operating system.
- Tested all the modules in compliance to autosar requirement specification, and as per iso26262 standards to the systems like bcm, eps, powertrain, dpms.
- Prepared srs, sdd documents and traceability against autosar specifications for the hev.

Embedded Engineer

Delta Corporation - 2007 - 2012

- Completed redesign and hardware testing of 3 VME IO boards using CPLD on 8-layer PCB.
- VMIVME-1111, VMIVME-2232, VMIVME2534) Redesign and Hardware testing, verification and debugging of ADSP based board (VMIVME-1182).
- Understand the specification for micro controller Write an assembly code according to given specification.
- Worked as a team leader for embedded group.
- Developed firmware for 8051 series micro-controller using C and assembly language.
- Developed device driver for linux board using C.
- Developed schematics and PCB layouts for projects using Eagle PCB and gEDA.

EDUCATION

Master of Engineering in Applied Electronics - (Government College of technology)