

# ROBERT SMITH

## Senior Embedded Software Engineer III

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Experience in the field of embedded systems Development, Firmware and device drivers development for embedded products, Testing, Verification & Validation. Experience in design, implement and debugging embedded software in Linux using C, C++. Experience in C, C++ code Development and code Debugging, RTOS libraries for embedded Linux in C.

## EXPERIENCE

### Senior Embedded Software Engineer III

#### Caterpillar - APRIL 2014 - 2020

- Responsibilities Development of Communication protocol stack for IPC Development of Boot loader and Application Development Developed software in C, C++ following MISRA C/C++ coding guidelines.
- Worked with hardware architectures such as FPGA.
- Investigated connectivity options and possibilities drawing on AVB and Wifi on embedded Linux and Free RTOS platforms.
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- Developed software test and verified plans and protocols, and conduct prototype testing and verification testing.
- Worked closely with hardware engineering team to debug/integrate software with hardware.
- Collaborated with program managers to create and manage development plans and project plans related to software development.

### Senior Embedded Software Engineer

#### Delta Corporation - 2011 - 2014

- Implemented support transmitting data over BLE and ANCS support on Nordic chipset.
- Design and implement new software architecture for fitness related devices.
- xformerly Faria Instrument, formerly Faria Watchdog) (Telematic black box vendor and Fleet Management Web View provider for boat and truck equipment).
- The bulk of my work was in the various protocol development, data packetization and sequencing.
- Also created GUI (wxPython-based) diagnostic software tools for bench tests of devices and protocols, as well as automated web data record access.
- Recent Programming Languages and Software and Hardware Tools Programming Languages Primarily C/C++ and Python (including wxPython and web2py) .

- This is Dummy Description data, Replace with job description relevant to your current role.

## EDUCATION

- Bachelor of Technology in Electronics and Communication Engineering - (JNTU)

## SKILLS

Project Management, Program Management.