

Robert Smith

Senior Embedded Software Engineer

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SUMMARY

Solid background in C/C++ programming for Embedded systems and Assembly languages. Knowledge of digital and analog hardware. Familiar with various Microcontroller architectures and functionality, including cross-platform development tools. Hands-on experience with RTOS. Proactive, result-oriented, self motivated team player with strong problem solving and organization skills. Flexible to handle change.

SKILLS

MS Office

WORK EXPERIENCE

Senior Embedded Software Engineer

Datron World Communications, Inc - March 2007 – 2020

- Developed C++ Embedded software for Software Defined Radio (SDR) using ColdFire microprocessor MCF6485 and MQX RTOS for High-Performance RT7700 HF Transceiver and HF Mobile Manpack PRC7700 Transceiver.
- Developed TRANSEC Frequency Hopping firmware controller for RT7700 and PRC7700.
- Developed PRC7700 ColdFire firmware controller to support 100W External Power Amplifier.
- Developed C++ Embedded software for Software Defined Radio (SDR) using ColdFire microprocessor MCF6485 and MQX.
- Developed PRC7700 ColdFire firmware controller for the internal Whip Antenna Tuner
- Developed ColdFire Battery Level Monitor and Low battery tone generation for PRC7700
- Developed RT7700 ColdFire firmware controller to support 1kW/500W External HF Power Amplifier and 1kW Antenna Tuner.
- Developed firmware of the Control board of the 1kW/500W External Power Amplifier and 1kW Antenna Tuner using PIC microcontroller.
- Developed ColdFire UART based flash programming drivers for RapidM High Speed HF TC4 modem
- Developed Visual C++ small Windows Application to build ColdFire programming image for TC4 modem from RapidM TC4 DSP Application file.

Senior Embedded Software Engineer

Delta Corporation - 2004 – 2007

- Design and Develop the Kulicke and Soffa (KnS) new software control system for its next generations chip assembly bonder using UML2, C++, Java o .
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EDUCATION

Master of Science in Electronics Engineering - (Technical University of Sofia)