Embedded Systems Software Engineer

Engineering | Beavercreek, OH | Full Time

JOB DESCRIPTION

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The Embedded Systems Software Engineer is responsible for designing, testing, debugging, and verifying embedded systems code for a radar sensor product. The engineer will be part of a small team and participate in systems design as well as be responsible for bringing up embedded hardware, implementing algorithms, and writing drivers for a variety of embedded system elements including DACs, ADCs, SPI peripherals, memory interfaces, and more. The ideal engineer will work well with the system architects, contribute to the overall design of the embedded systems, and collaborate with mixed-signal/RF as well as digital design engineers.

Responsibilities

- Bring up and verify functionality of new embedded system platforms using test C code and lab equipment (power supplies, oscilloscopes, etc.)
- Design and testing of low-level control drivers for a variety of peripherals such as converters, synthesizers, etc.
- Bring up of real-time embedded operating systems like RT-Linux on ARM platforms
- Work with system specifications to implement, verify, and test embedded systems drivers and algorithms in C/C++ running on these systems
- Ensure that designed modules meet specifications and interface correctly with the rest of the system
- Work with mixed signal and digital design engineers to ensure that interfaces are properly designed
- Help systems team identify and select appropriate embedded systems controllers

Desired Skills & Experience

- 3-10 years of experience working on embedded systems
- Demonstrated ability to design, build, and ship C code for embedded systems
- Fluent in C/C++ and able to rapidly design, test, and verify systems
- Experience with embedded operating systems (RT-Linux) on ARM platforms
- Experience with a variety of microcontrollers including ARM and MIPS
- Clear written and spoken communication
- Able to work as a member of a small team and collaborate towards a larger system
- Able to give accurate estimates of deadlines and milestones as well as meet them