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I am an embedded systems designer who has worked extensively in the rf/microwave/wireless industry, and has experience with the full software & firmware development cycle as well as hands-on experience in electronics manufacturing.

While not an rf design engineer per se, I do have a working knowledge of rf components and equipment, and the domain knowledge needed to design digital control circuits for such equipment, as well as familiarity with test equipment and the automation thereof. I have experience in testing and calibrating rf devices and in laying out rf pcbs in collaboration with an rf design engineer.

I have experience with remote work, and I have a distraction-free work environment including a basic electronics lab.

SKILLS

Git, SVN, Linux
C, Python, Java, HTML/CSS/JS
Bare-metal firmware, unit testing, static analysis
Digital circuit design, including microcontrollers (mostly Microchip PIC and Atmel)
Design for manufacturability and design for test
Schematic capture and PCB layout
Single Board Computers including Raspberry Pi and Beaglebone as well as industrial mcu boards
Communications protocols and interfaces such as GPIB (HPIB, IEEE-488), USB, SPI, I2C, UART (RS232, RS-485, RS-422), TCP/IP, UDP
Automation of test equipment such as network analyzers, spectrum analyzers, oscilloscopes, signal generators, DMMs etc.
Testing, calibrating, and troubleshooting digital, analog, and rf circuits
Experience working with legacy code and older languages
Experience porting applications between languages/platforms
Personal/hobby experience with Arduino, IoT, Android, Unity3D, LSL (OpenSimulator)

JOB EXPERIENCE

Designed and programmed both GUI and command line software to control products and development boards and to acquire and analyze data from test instruments
Implemented computer-controlled calibration and testing of products for increased speed and accuracy
Analyzed and plotted test data in Excel
Wrote scripts to automate and test GUIs and to automate remote testing of devices
Wrote bare metal firmware (in C and assembler) to control various embedded systems
Configured network modules for IoT products
Developed APIs, wrote specifications, acceptance test procedures, and other documentation
Provided remote support to coworkers and customers updating firmware, configuring and troubleshooting systems etc.
Ported software from obsolete languages to current platforms, tested and refactored legacy code
Designed digital circuits including Microchip PIC processor based microcontroller boards
Drew schematics and laid out both digital and microwave PCBs using Mentor Graphics PADS
Specified and purchased electronic components, circuit boards and subassemblies
Performed testing, tuning, component level troubleshooting and repair of active microwave filter circuits and other rf devices, and various digital and analog circuits
Built prototypes, test fixtures, cables etc.