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

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, HTML/CSS/JS
Bare-metal firmware, unit testing, static analysis
Single Board Computers including Raspberry Pi and Beaglebone as well as industrial mcu boards
Digital circuit design, including microcontrollers (mostly Microchip PIC and Atmel)
Design for manufacturability and design for test
Schematic capture and PCB layout
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 and troubleshooting both digital, analog, and rf / microwave / wireless 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 and tested bare metal firmware (in C and assembler) to control various embedded systems
Configured network settings for IoT products

Developed APIs, wrote specifications, acceptance test procedures, and other documentation
Provided remote support of coworkers and customers when updating firmware, configuring and troubleshooting systems etc.

Wrote scripts to automate and test GUIs (including those provided by vendors for their instruments and dev boards) and to automate remote testing of devices via a terminal
Wrote desktop software, 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.