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

While most of my experience has been with embedded systems and with automating test equipment, I am also interested in other types of software development.

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

SKILLS

Git, SVN
Linux, DOS, Bash, command line, shell scripting
C, Python, Java, HTML/CSS/JS; currently learning Rust
Bare-metal firmware, unit testing, static analysis, board bring up, debugging
Digital circuit design, including microcontrollers (mostly Microchip PIC processors)
Design for manufacturability and design for test
Schematic capture and PCB layout
Single Board Computers and 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 experience with Raspberry Pi, Beaglebone, Arduino / Atmel, SDR, IOIO, 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) for 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.

Wrote desktop software in Python, Java, Visual Basic, and other languages
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
Specified and purchased electronic components, circuit boards and subassemblies

Performed testing, tuning, component level troubleshooting and repair of microwave filter circuits and other rf devices, and various digital and analog circuits
Built prototypes, test fixtures, cables etc.