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

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
Single Board Computers including Raspberry Pi and Beaglebone as well as industrial mcu boards
Digital circuit design, including microcontrollers (especially Microchip PIC processors)
Schematic capture and PCB layout
Communications protocols such as GPIB (HPIB, IEEE-488), USB, SPI, I2C, UART (RS232, RS-485, RS-422)
Automation of test equipment such as network analyzers, spectrum analyzers, and oscilloscopes
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 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
Wrote scripts to automate and test GUIs

Wrote bare metal firmware in C and assembler
Configured network modules for IoT products
Developed APIs, wrote specifications, acceptance test procedures, and other documentation
Remotely assisted coworkers and customers with installing firmware, troubleshooting systems etc.

Wrote desktop software in Python, Java, Visual Basic, and other languages
Ported software from obsolete languages to current platforms

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 rf devices, and various digital and analog circuits; built prototypes, test fixtures, cables etc.