

Jeanne M. Pindar  
Hampton Beach NH  
work@jpindar.com  
jpindar.github.io  
603-205-2159

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 hardware and software development, as well as PCB layout work.

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

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 and with porting applications between languages/platforms

Personal experience: Rust, Raspberry Pi, Beaglebone, Arduino / Atmel, SDR, IOIO, Unity3D, LSL (OpenSimulator) , Android

## 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.