Jeanne M. Pindar
4 Page Lane, Hampton Beach NH
work@jpindar.com
@jpindar
603-205-2159

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 electronics manufacturing

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

When practical I prefer remote work; I have a distraction-free work environment including a basic electronics lab.

SKILLS

C, Python, Java, HTML/CSS/JS
Linux, Git, SVN
PCB layout, Mentor Graphics PADS
Microcontrollers, mostly Microchip and Atmel
Single Board Computers, including Raspberry Pi and Beaglebone
Android, Unity3D, LSL, AutoIt
Experience working with legacy code and older languages such as Pascal, Visual Basic, HPL, HPIL, and HP Basic
Software control of test equipment such as network analyzers, spectrum analyzers, and oscilloscopes
Communications and control protocols such as GPIB, HPIB, IEEE-488, USB, SPI, I2C, UART, RS232, RS-485

JOB EXPERIENCE

Designed, programmed, and implemented instrument control systems to control various embedded systems and to aquire data from test instruments via GPIB and serial busses

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

Wrote firmware in C and assembler, developed APIs, wrote specifications and acceptance test procedures

Wrote ATE desktop software in Java, Visual Basic, Pascal, and other languages; ported ATE software from HPL, HP Basic, HPIL, and other obsolete languages

Performed testing, tuning, component level troubleshooting and repair of active microwave filter circuits and rf devices

Performed testing, tuning, component level troubleshooting and repair of various digital and analog circuits such as digital interfaces, voltage controlled oscillators, fm modulators and demodulators, video amplifiers, and fiber optic systems including laser diode drivers

Built prototypes (including hand SMT assembly and soldering), test fixtures, cables etc. including phase-matched semirigid coaxial cables; installed and polished fiber optic connectors