

Mystic Industries

Everett, WA

rswolin@netscape.net

Electrical Engineer specializing in embedded systems firmware and accompanying hardware design. I have a BSEE from NY's Rensselaer Polytechnic Institute and more than 20 years of industry experience.

Clients include: Allied Signal, BSquare, Burke, DBC Avionics, DEC, Dun&Bradstreet, EG&G, Emulex, E*swing, Fugu Ltd, Galactic Industries, IBM, Microdyne, MicroEncoder/Mitutoyo, Microsoft, Myotronics, Optical Technology Devices, SeaMED/Plexus, Starwave, Stratos, Sun Microsystems, Sunfire, SunStar Timers, Traveling Software/TSI, Wang Laboratories, WD Machines, and XLI.

Firmware/Software services

- Embedded systems firmware design/debug, in C, C++ and assembler
- WinCE/WinMobile/MSAuto drivers and applications
- Linux/Unix device drivers, custom kernels, and application programming
- FPGA/CPLD circuit design in VHDL
- Apple iPhone/Cocoa/OSX development
- Windows apps in MFC and Win32 API
- Cross-platform app development with wxWidgets
- TCP/IP networking and Winsock development
- Multithreaded servers
- Simulators and testbeds

Hardware services

- Hands on hardware bringup/debug using a scope, logic analyzer, and incircuit emulators
- Digital/Microprocessor circuit design/redesign
- OrCAD schematic capture
- PCB layout
- Rework, including microscope work

Other areas of experience

- Object Oriented Design
- USB, RS232, SPI, SCI, I2C, A/D, LCD, TCP/IP, IrDA, CAN, ICE, ICD, BDM
- ARM7/9, MX51/31, 68332, 80x86, PPC, DSP, PIC, 68HC11, 8051, AVR, Z80, EZUSB
- Perl, Java, PHP, Shell Scripting
- Xilinx, Altera

Interests: Avid mountain biker/cyclist, snowboarder, windsurfer, pilot/Citabria owner