

JOSEPH W DONAHUE

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OBJECTIVE

A position where an organized, versatile, flexible and self-motivated senior software developer, can flourish, learn and apply his skills.

PROFESSIONAL SKILLS

I have over 19 years experience in software design, implementation and testing. My main focus has been embedded real-time, metrological systems and their integration with Windows based UI's and databases.

Languages	Proficiency
C/C++	Highly proficient (since 1990 for C++)
C#	Barely proficient (3 years. Read it no problem; some maintenance experience).
SQL/ESQL	Barely proficient (5 years)
HTML	Fairly proficient (9 years)
UML	Fairly proficient (7 years)
Assembly	Barely/fairly proficient: 8051, x86, PIC
Tools	Proficiency
Microsoft Visual Studio (enterprise)	Fairly proficient (10 years)
GNU (Win32 cross to PPC)	Fairly proficient (1 year)
Sybase SQL Anywhere Studio: SQL Modeler and InfoMaker	Highly proficient (4years)
Tasking 8051 C Compiler	Highly proficient (2 years).
Diab PPC C++ Compiler	Fairly proficient (8 months)
Eagle Schematic Capture & Layout	Fairly proficient (2 years).
IntelliCad (Cadopia)	Barely proficient (3 months).
Hardware	
Processors:	8051 (Cygnal's C8051F124), H8-536, MSP430x14x, PIC, PPC-823, Rabbit 3000, V25, x86, Z80.
Emulators:	NOHAU (H8), ROM-ICE (V25).
JTAG BDM:	Cygnal, PPC-823
Electronics Bench:	Analog Oscopes, Bread board circuits, DVM, DOM, DCM, DMM, DSO, Logic Analyzers, Proto boards, RF Power Meters, Soldering Irons, Spectrum Analyzers and automotive noise generators.

EXPERIENCE

12/05 to 12/06, 04/07 to 04/08, 07/08 Excell Data Corp. Bellevue, WA.

SDET3

- Assignment to Microsoft MSMQ test group.
- Feature specific test requirements documentation for Microsoft Message Queuing (MSMQ) API's.
- Test automation of Microsoft Message Queuing API's. C/C++, C#, Python, cmd scripts and WTT.
- Test runs and results analysis. Some kernel debugging.
- Microsoft internal tools.

11/98 to Present O'Donahue Software Consulting Bellevue, WA.

Owner

- Customer interviews, requirements analysis and documentation.
- Design documentation (mostly UML).
- Project costing, bid and management.
- Contract negotiation and authoring.
- Implementation, test and delivery.
- C, C++, Various assembly languages (8051, PIC, x86) HTML, SQL and some Visual Basic.
- Development of software for nondestructive examination (NDE) equipment and processes.

[Projects List](http://www.odonahue.com/RecentProjects.html) (<http://www.odonahue.com/RecentProjects.html>)

4/97 to 11/98 Quest Integrated, Inc. Kent, WA.

Senior Software Engineer

- Requirements, design, implementation, test and delivery of PC based data collection and control systems.
- Hardware/Software integration and troubleshooting.
- Some reverse engineering and code review of existing DSP code.
- NT graphical user interfaces (Power++, MFC, Win32).
- NT console user interfaces.
- DOS menu driven user interfaces.
- Introduced coding standards and UML.
- Introduced "build box" and software bill of materials concepts.
- Parallel port nibbler.
- EIA422/485 hardware and software drivers.
- Code reviews, test and debugging of communications protocols for [Reactor Inspection Vehicle](http://www.qi2.com/id128.html) (<http://www.qi2.com/id128.html>).
- Development of software for NDT (ND(T/E/I) equipment.
- Multiprocessor, control and measuring systems.
- Frequent use of DSOs, logic analyzers and multimeters.
- Automated test equipment software design and implementation.

4/95 to 2/97 Measurement Systems International

Seattle, WA.

Software Engineer

- Requirements, design, implementation, test and delivery of PC and embedded systems (completion of crane scales and RF Modem projects started with previous employers).
- Windows for Workgroups user interface.
- Hardware/Software integration and troubleshooting.
- NEC V25 (x86) and H8-536 embedded processors.
- NOHAU and ROM-ICE.
- Frequent use of DSOs, logic analyzers and multimeters. One-time use of automotive noise generator; tracked down a random reset problem in the Proxim RF Modem.

1990 to 1995 This and previous job history available on request.

Software Engineer, Software Test Engineer

- Requirements, design, implementation, test and delivery of proprietary cellular modems. These were based on Proxim 900Mhz spread spectrum OEM modules.
- Design (from requirements), implementation, test and delivery of distributed RF linked scrap metal blending system consisting of multiple crane scales paired with crane cab display/controllers and a base station with a database of scrap recipes and inventory.
- Initial test plan development for white/black box testing of Visual Basic/SQL database application (in co-ordination with developers at Microsoft).
- Black box testing of Microsoft Access database applications (for Microsoft).
- Black box testing of database application used in patient studies of networked medical sensor data.