

DAVID L. WAMPLER

1791 Fortner Drive
Indianapolis, Indiana 46231

(317) 268-6789, (317) 439-9023
davewampler@amscotllp.com
davewampler@indy.rr.com

SUMMARY

Mr. Wampler is a degreed electrical engineer with experience in systems engineering, system integration and testing, software development and testing, electronic design, preparation and review of data, and project leadership. Technical efforts include specification and development of PC and embedded processor based software and systems, and development of hardware and software inter and intra system interfaces. He has been employed in both Department of Defense and private industry, and has worked both as a team leader and as an individual contributor.

**AMSCOT LLP – Indianapolis, Indiana
General Partner**

November 1984 – Present

- Develops AMSCOT LLP **Budget Planner**, a VS 2008 VB / .net 3.5 consumer application (2009-Present)
- Provides custom software solutions using VBA, VB6, VB.net, C#, DotNet, Javascript, HTML, FORTRAN, and COBOL technologies.
- Develops custom embedded processor solutions.
- Maintains company LAN, Windows 2003 server, and website amscotllp.com
- Tax matters partner

**TECHNISOURCE
Systems Engineer**

November 2008 - March 2009

- Systems engineering assignment in the Innovation Center at Hill-Rom in Batesville, IN, a major international medical device manufacturer. Medical devices include hospital beds, stretchers and architectural products. Completed training in Hill-Rom process for development of medical devices in accordance with Quality System Requirements of 21 CFR Parts 11 and 820.
- Tasks include preparation and maintenance of specifications, risk analysis, and interface documentation for the Design History File (DHF). Used DOORS for requirements management and change history. Followed Hill-Rom quality assurance process.

**BELCAN SERVICES GROUP LTD PARTNERSHIP
Systems Engineer**

March 2007 - October 2008

- Systems engineering assignment with the Control and Electronics department of Rolls-Royce in Indianapolis, IN, a major international gas-turbine engine manufacturer. Rolls-Royce Gas-turbine engines are used on civil and military aircraft, and in industrial applications. Developed engine control component specifications and engine interface documentation. Prepared and verified change control documents in accordance with Rolls-Royce, FAA and DOD quality assurance requirements. Used DOORS for requirements management.

**TECHNISOURCE
Systems Engineer**

February 2005-September 2006

- Systems engineering assignment at General Dynamics in Ft. Wayne, IN, a major international defense contractor. Assisted managing requirements for the embedded software based mission planning / command and control system "ComBAT." ComBAT uses IP over military radio communications. Reviewed proposed changes to system, software, and test requirements. Reviewed test procedures against system requirements to ensure software conformed to defined user needs and intended uses. Led qualification verification analysis (QVA) team that reviewed un-testable design requirements. Tracked QVA team progress in preparing formal reports. Used MS Word to prepare reports. Used Doors to establish requirement and testing history, and ClearQuest for change control process management.
- Participated in requirements development for the Generation 2 enhancement of the Telematics motor vehicle 2-way telemetry system to be used by International Truck in Ft. Wayne, IN.
- Reverse engineered system requirements for embedded software based automotive rear-seat entertainment system to be used by Delphi in Kokomo, IN. System included an MSCAN interface. Analyzed the performance of the system, restated the performance requirements to enhance testability, added requirement

traceability methodology to the product specification and test procedures, and created a Requirement Trace Matrix that linked requirements to test procedure steps.

**NORTHROP GRUMMAN MISSION SYSTEMS
Software Tester 4**

August 2001 – August 2004

- Member of the V-22 Mission Planning System (VMPS) test team (two years) and then Aircraft Maintenance Event Ground Stations (AMEGS) test team (one year) at Raytheon Systems in Indianapolis, IN. Performed formal software qualification and system testing in accordance with Raytheon and DOD quality assurance requirements to ensure that VMPS was safe and effective. Prepared formal Test Plans, Software Test Descriptions, Test Procedures, and Test Reports. Conducted software and system tests. Developed support applications for verifying contents of data transfer devices. Used Doors, Change, and Synergy for test requirements management, to create test requirement history, for testing change control, and for formal release and configuration control of test procedures. Interrogated data in Sybase Server using VB6 and SQL.
- As a subcontractor employee on location with the project team, was trained in and followed Raytheon's CMMI Level 4 certified processes for the VMPS Software Development Life Cycle (SDLC).

**THE NAVIGATE GROUP, INC.
Consultant & VB6 Developer**

October 1998 - February 2001

- Led development and testing of PC based client side of bizPointe® order entry system. Analyzed business processes of legacy system and determined user interface requirements. Determined installation and testing requirements for client software. Determined requirements for development support subsystems. Negotiated interfaces between client and server that employ both message buffers and XML file transfers.
- Developed interface and performance requirements for COM and ActiveX server components, business objects, and type library defined interfaces using Object Oriented Programming (OOP). Developed and tested client software installation. Developed both an ActiveX Server with an MDI/Child form user interface, and an ActiveX document user interface. Developed business objects, COM server components, and ActiveX controls, all with type library defined interfaces. Developed support application for managing metadata. Communication between client and server employed both message buffers and XML file transfers. Design environment was Microsoft Visual Studio 6 with VB6 and MIDL compilers. Integrated commercial ActiveX controls. Integrated client software with HP3000 based server software using internet port connections.

**RAYTHEON
Staff Engineer – Systems Engineering Department**

January 1997 - June 1998

- Performed systems analysis for modification and enhancement of exportable airborne torpedo launch controller. Analyzed control system design, including two embedded Intel 8751 based assembly language programs, to determine performance and functional requirements for both hardware and software. Prepared software functional requirements document by reverse engineering embedded weapon system software and hardware design (Raytheon).
- Supported development of documentation for site Systems Engineering process. Followed procedure for making changes to processes and procedures.

**NAVAL AIR WARFARE CENTER – Indianapolis, Indiana
Electronics Engineer / Systems Engineer /Project Leader**

- Supported Naval Air Systems Command (NAVAIR), Washington, DC, for acquisition of airborne inertial navigation system (SAHRS). Negotiated technical agreements, including data bus interface documentation and mode control/state sequencing, between the Navy and two contractors to ensure interchangeability of independently developed embedded software systems. Developed SAHRS specification changes, system interface documentation, and contract modifications (including DID selection and CDRL modifications) to implement technical agreements. Performed and coordinated reviews of contractor data submissions. Enhanced to ensure interchangeability.
- Provided technical support to NAVAIR for acquisition and integration of combined voice and data radio set (JTIDS) into F-14, F-18, and E-2C Navy aircraft. Participated in "tiger team" that conducted on-site interactive reviews of airframe contractor's technical approaches. Participated in joint service and Navy specification development and JTIDS/aircraft interface and integration requirement development.

- Designed, developed, documented, and tested shipboard and airborne electronic equipment, both with and without embedded software, in accordance with applicable military specifications and standards. Designed and developed digital data link receiver for radio controlled "smart bomb."
- Customer facing project leader - Led multidisciplinary engineering teams, including systems, electrical, mechanical, software, quality, environmental, EMI/EMC, manufacturing, model shop, and logistics engineers and technicians. Wrote general business letters and memorandums. Wrote detailed proposals and project plans. Prepared budgets and wrote progress reports for submission to the external customer.
- Designed new electronic circuits, selected parts, studied parts obsolescence in existing designs, reverse engineered electronic circuits, designed embedded software systems, reverse engineered embedded software systems.
- Participated in site-wide conversion to documented process/procedure controlled business practices: 1992 through 1994.

COMPUTER TECHNOLOGIES EXPERIENCE

Assembler	Intel 8086 in DOS, Intel 8048 and Intel MCS 51 Family in real time embedded software systems, assembly language macros, fixed-point math
Help	HTML Help Workshop, HTML, CSS
Office Tools	MSOffice (Word, Excel, Power Point, Visio, Project, Access), Adobe Acrobat
Requirement Management Tools	DOORS, Change Synergy (now Change), CM Synergy (now Synergy), ClearQuest
.NET	VS 2008 Windows Forms (GUI) Applications, business objects, Windows Service Applications (Experienced with VB.net, entry level for C#)
Visual Basic 6	Windows Applications, ActiveX Controls, business objects, COM/COM+ Components, IDL Interfaces/MIDL Compiler, XML Documents, Visual Studio 6 w/SP6, Visual Source Safe
Visual Basic for Applications	MS Word, MS Excel, MS Access/Jet database
Visual Fortran / Fortran / COBOL	PC based, VAX based, MANMAN®
Databases	Sybase (SQL), Jet (Access)
Windows Server 2003	Server Administration, Active Directory, DNS, IIS, Mail

EDUCATION

B.S. in Electrical Engineering, Purdue University, West Lafayette, IN

PROFESSIONAL DEVELOPMENT / CERTIFICATION

Member - International Council on System Engineering (INCOSE) 2009 - present
Hill-Rom Systems Engineering Process - 2008
Essential COM+ for VB Programmers (DevelopMentor) - 2000
Configuration Management II (Course I) – 1996
NAWCAD Indianapolis Coaches Institute - 1995
DAWIA Certification, Systems Engineering Category, Level III - 1994
Basic Project Management – 1994
Navy Systems Acquisition Management Course – 1992

MILITARY SERVICE

U.S. Army (Army Security Agency)
Serviced and repaired communication security equipment for tactical radio and teletypewriter communication circuits. Serviced Teletype® equipment.

ACTIVITIES

Church Orchestra (Bass Trombone & Tuba)