CHARLES A. (JAY) WHEELER

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INFORMATION TECHNOLOGY SPECIALIST / SENIOR SOFTWARE ENGINEER

An Information Technology Leader is a person with considerable knowledge of the entire set of programs, procedures and related documentation associated with a computer or data processing system, and who carries through an enterprise or project by skillful or artful contrivance. A person who has the abilities to find creative resolutions to problems, be they employee based, software or hardware based, client or vendor based. A person who can communicate with all parties, and get done what is needed without bludgeoning anyone. A person with the extensive knowledge and skills to follow a project through full System Development Life Cycle and deliver a well documented working project.

If this is the person you are looking for, then check out the rest of my story. I am looking for a position that is both challenging and satisfying. If you have such a position, contact me.

QUALIFICATION HIGHLIGHTS

>LDAP   >SOAP   >H323 and SIP   >MACE Best Practices   >PCI/DSS   >FERPA   >H350
>Information Technology   >Networking   >Software Engineering
>Project Planning & Development >Product Development   >Internet Technology
>Business Resumption Planning   >Change Analysis & Management   >Client/Server Technology
>OOA/OOD   >Refactoring   >Quality Assurance
>LAN/WAN Engineering   >Multi-Thread Synchronization   >Best Practices Implementation
>Subversion and CVS   >Eclipse Ganymede   >Algorithmic Design & Programming
>Contingency Planning & Disaster Recovery   >Demonstrated Proficiency in Leading & Mentoring
>Full Software Development Life Cycle (SDLC)
>Can Program to: API, Technical Specification, Software Library; can even work with and program to Client Specification

MANAGEMENT EXPERTISE SUMMARY

Banking and Securities Industries   6+ years
>Project Management   >Facilities Management   >Operations and Work-flow Analysis
>Bank Policy   >Standards and Procedures Manuals   >Audit and Regulatory Compliance
>Department Personnel and Budget Management

Management Consultant to the Banking Industry   2 years
>Software Consulting   >Process Analysis   >Work-flow Analysis
>Business Resumption (DISASTER) Planning   >Establishment of Policy, Standards and Procedures manuals

Management Consultant to Higher Education   6 years
>Project Management   >Programming and Database Standards   >Technology Assessment
>LAN/WAN/Internet Development and Management   >Information Technology Administration and Management
>Department Personnel and Budget Management   >Programming and Programming Project Management

TECHNICAL EXPERTISE

Microsoft Desktop	Windows Vista(business), Windows NT/2000, Windows 95/98/XP
Microsoft Servers	Windows 2000, Windows 2003 & WindowsNT Enterprise, Internet Information Server (IIS) and Enterprise Server, SQL Server 7
Microsoft Software	C#, .NET Framework, Visual C++, Microsoft C++, Microsoft Foundation Classes(MFC), Win32 API and SDK, ATL/COM/DCOM, ActiveX and OLE, ODBC, DAO, ADO and Recordset, GDI, Visual Basic, VBScript, Transact-SQL, ASP
Desktop	X-Windows/Gnome, SGI and SUN
Unix Operating Systems	BSD, NetBSD, FreeBSD, Linux (Red Hat, Fedora, Ubuntu, SuSe), H/P-UX, SCO
Servers	Novell 3.12/ 4, Apache and Netscape Enterprise Server, Informix, mySQL and mSQL
Software	**PHP 5** and **4**, GNU GCC, G++, OpenGL, wxWidits (wxWindows), Java 2, Java Beans and Enterprise Java Beans, HTML 4, DHTML, CSS, XML, JavaScript, Perl5, Perl6, Python, Tcl, SQL, STL, Algol 60, Fortran
Internet	Cisco and Nortel (Bay Networks) T-1 and T-3 IP and Multicast, H/P, Cisco, Nortel and 3-Com LAN and WAN routers, Twisted-pair and fiber-optic Ethernet (100mBit and 1gBit)
Networking	SOAP, DNS, WINS, DHCP, HOSTS, TCP/IP, IPX-SPX, SNMP, SMTP, BGP, VPN, FTP
Project Management Tools	Microsoft Project, Visio 5.0
Unisys Mainframe	A-Series (A-4FX, A-6D, A-9), MCPVI and MCPII, BNAV2 and NDL
Digital Equipment	VAX and AlphaServer (VMS, WindowsNT, DECNet)

SOFTWARE EXPERTISE

Software	Extent of Expertise	Skill [years of experience-last year used]
C++	Power User	Microsoft C# [3yrs-2009], Microsoft Visual C++ [11yrs-2009], Microsoft C++ [16yrs-2007], GNU GCC (C, C++) [12yrs-2007], Borland C++ [14yrs-2007]
C++API, SDK and Technologies	Power User	Microsoft Foundation Classes (MFC) [12yrs-2009], Microsoft Win32 API [17yrs-2008], Microsoft Windows Platform SDK [7yrs-2007], STL [8yrs-2008]
	Highly Skilled	Microsoft WTL [4yrs-2007], Microsoft ATL [7yrs-2008], Microsoft COM [9yrs-2008], Microsoft DCOM [2yrs-2002], Microsoft ActiveX [1yr-2007], wxWidets Cross-Platform API (C++) [4yrs-2005]
Graphics API and SDK	Highly Skilled	Microsoft GDI [10yrs-2007]
	Skilled	OpenGL [3yrs-2004]
Basic	Highly Skilled	Microsoft Visual Basic [14yrs-2009]
	Skilled	Microsoft Transact-SQL [3yrs-2005]
	Adequate	Microsoft VBScript [1yr-2000]
Database API and SDK	Power User	SQL [19yrs-2009], Microsoft ODBC [4yrs-2004], Microsoft DAO [2yrs-2004], Microsoft ADO [5yrs-2007], Microsoft Recordset [2yrs-2002]
	Skilled	JDBC [1yr-2004]
Web Software	Power User	DHTML [15yrs-2009], CSS2 [9yrs-2009], XML/RSS/XHTML [8yrs-2009], SOAP[1 yr-2009]
Scripting Languages	Power User	PHP [8yrs-2009], Javascript [14yrs-2009]
	Highly Skilled	Perl [10yrs-2007], Tcl [2yrs-2005], Python [7yrs-2007]
Internet Technologies	Skilled	Microsoft ASP [2yrs-2001], Microsoft ISAPI [5yrs-2005]
	Highly Skilled	CGI [12yrs-2007]
Managed Code	Adequate	Microsoft .NET [3yrs-2009], Java2 [4yrs-2005], Enterprise Java Beans [4yrs-2005]
	Skilled	Microsoft C# [3yrs-2009]

TYPE OF SYSTEM KNOWLEDGE

Platform	Knowledge Type	Skill [years of experience-last year used]
Microsoft Desktop	Installed, Configured, Use	Windows Vista (Business) [2yrs-2008], Windows 98 [2yrs-2005]
	Installed, Configured, Use, Programmed	Windows XP Professional [5yrs-2009], Windows 2000 Professional [7yrs-2008], Windows NT4 [10yrs-2007], Windows 95 [3yrs-2000]
Unix/Linux Desktop	Configured, Compiled, Installed, Programmed	X-Windows [7yrs-2009], Gnome [2yrs-2009], KDE [1yr-2007]
	Configured, Installed, Used	SGI [2yrs-1996], SUN [2yrs-1996]
Microsoft Servers	Configured, Installed, Programmed	Windows 2003 Server [5yrs-2009], Windows 2000 Server [7yrs-2008], WindowsNT Enterprise Server [8yrs-2007]
Unix Servers	Configured, Compiled, Installed, Programmed	BSD [14yrs-2009], NetBSD [12yrs-2009], FreeBSD [9yrs-2009]
	Programmed	H/P-UX [1yr-1997]
	Configured, Compiled, Installed	SCO [2yrs-1996]
Linux Servers	Configured, Compiled, Installed	Red Hat Enterprise Linux [1yr-2008]
	Configured, Compiled, Installed, Programmed	Fedora Linux [3yrs-2009]
	Configured, Installed	Ubuntu Linux [4yrs-2009], SuSe Linux [1yr-2007]
Novell Servers	Configured, Compiled, Installed, Programmed	Novell 3.12 [10yrs-2005], Novell 4.01 [10yrs-2005]
LDAP Server	Configured, Compiled, Installed, Programmed	OpenLDAP Server [2yrs-2009]
	Configured, Installed, Programmed	IBM Tivoli LDAP Server [1yr-2007], Sun One LDAP Server [1yr-2007]
Database	Configured, Compiled, Installed, Programmed	MySQL [11yrs-2009]
	Configured, Installed, Programmed	Microsoft SQL Server 7 [4yrs-2002], Informix [1yr-1998], mSQL [3yrs-2006]
HTTP (Web)	Configured, Installed, Programmed	Microsoft Internet Information Server (IIS) [10yrs-2007]
	Configured, Compiled, Installed, Programmed	Apache Server [8yrs-2009]
	Configured, Installed	Netscape Enterprise Server [2yrs-1998]

CERTIFICATES

Permanent California Community College Teaching Credential.
  Computers, Mathematics and Related Technologies.

Certified Data Processor, Data Processing Management Association.

Novell 3.2, 4.01 Certified Network Instructor.

PROFESSIONAL EXPERIENCE (page 1)

<u>**Senior Software Consultant,** EarthWalk Software</u>   May 2008 – present

- Designed and developed a SOAP server (PHP 5) to provide a common Credit Card Transaction service for a secure desktop application and tax preparation software on various local servers. Transactions from the desktop and tax preparation software are routed, in a secure manner, through the SOAP server to the credit card processing vendor's gateway.
- Created an Open Source desktop application in Microsoft C# to demonstrate how to interface to the RushTaxOS taxEngine Library through the sample SOAP service (taxEngineServer).
  Application located at http://taxestimator.sourceforge.net
- Developing an Internet Explorer browser based version and a mobile version for Microsoft Windows Mobile devices (Pocket PC, PDA, Cell phones...).
- Created Open Source version of the RushTax Tax Estimation Library, named taxEngine, and established an open source presence on SourceForge (www.sourceforge.net) for the taxEngine project (taxengine.sourceforge.net).
- Created sample applications to demonstrate how to create a self-contained application, a SOAP server and web browser client, and analysis tools, using the RushTaxOS taxEngine software.
- Wrote detailed user documentation in OpenOffice and PDF format.
- TOTALLY re-engineered a legacy tax estimation library to PHP 5 object oriented library (taxEngine Library).
- Developed a SOAP server in PHP 5 to provide a Tax Estimator Service based on the tax estimation library.
- Developed front-end application and web page to illustrate how to interface to the Tax Estimator Service.
- Installed and configured FreeBSD (Unix), Fedora (Linux) and Windows (Server 2003) servers to support the business infrastructure and Internet access.
- Installed and configured Subversion source versioning software on FreeBSD and Fedora servers to maintain a redundant, central repository of the business software assets.
- Designed and developed PHP 5 application to detect the receipt of processed tax returns from the IRS and file the return data in a secure database.
- Designed SOAP service to provide processed tax return data to an authorized service processor on the local area network.
- Developed SOAP client in VisualBasic 6 to access the tax return service and automatically download the return data and notify the operator and tax preparers. It also detects new PDF files of processed tax returns from tax preparers and forwards them to the SOAP server for archival storage.

CLIENTS:

- **EarthWalk Software** (January 2009-March 2009)

- **RushTaxOS** (December 2008 – January 2009)

- **RushTax, Inc** – an independent tax consulting and preparation service (May 2008 – January 2009)

PROFESSIONAL EXPERIENCE (page 2)

Senior Software Engineer, PassLogix, Inc. March 2007 - November 2007

PassLogix, Inc., produces a Single Sign On solution for management of multiple login user names and password combinations by process, featuring automatic password form detection and login technologies on Microsoft Windows platforms and supported Web Browsers (Internet Explorer and Firefox).

- As part of a 6-member team, maintained and prepared for release the core Single Sign On (SSO) software package;
- Added new features and modified/extended existing features in Microsoft C++, C# and .NET;
- Created the following virtual operating system platforms using VMWare and Microsoft Virtual PC 2007 to qualify software changes to the SSO software package: Windows 2003 Server, Windows 2000 Server, Windows XP Pro, Windows 2000 Pro, Windows Vista Business Edition, Red Hat and Fedora 7 Linux;
- Installed and configured OpenLDAP, IBM Tivoli and Sun One Server on Linux (Red Hat Enterprise), Windows 2003 Server and Windows XP Pro Virtual Machines (VMWare and Microsoft Virtual PC 2007);
- Installed and configured Active Directory Services on Windows 2003 Server Virtual Machine and Active Directory Client on Windows Vista Business, Windows XP Pro and Windows 2000 Pro;
- Worked with Senior Sales Support Engineers and Level 3 Software Engineers (a.k.a. Customer Support Software Engineers) to resolve customer problems and program (software) design flaws in the current and previous releases.

Senior Software Consultant, EarthWalk Software June 2000 -March 2007

Independent software engineering consultant; Internet and World Wide Web development services; and computer networking:

- Custom CMS (Content Management System) design utilizing PHP and MySQL for quick development, publishing and maintenance of web-based content for internal and Internet use;
- Designed, installed and implemented on-line stores using PHP-based CMS packages (Post-Nuke, Xaraya and custom written CMS) and MySQL on LAMP-based systems;
- Installed redundant T-1 routers to link 5 resort hotels in 3 cities located in western Mexico to each other and a proprietary resort booking system. Installed and configured routers to provide Internet connections to each room in each hotel;
- Interfaced custom hardware utilizing X-10 technologies and network protocols to Windows/NT (Visual C++/MFC) and UNIX (wxWidgets and GTK+) operating systems;
- OpenGL application to display network status in virtual 3D scene graph on Linux-based UNIX systems;
- Perl5-based CGI scripting interface to Microsoft Access and Microsoft SQL database;
- XML-based database extraction program in Perl5/Python to automate data extraction and packaging;
- Microsoft Visual C++ ATL/COM control to interface Windows2000/XP applications to Unix-based corporate dialer;
- Re-engineered Windows MFC-based system for cross-platform (Windows, UNIX Tcl/Tk and UNIX Motif) display of virtual 3D scene graph;

CLIENTS:

- **EarthWalk Village Store** (June 2004 - August 2006)
- **EarthWalk Designs** (November 2002 - August 2004)
- **Lakland Enterprises** (May 2002 - March 2005)
- **Meagher Electrical Labs** (January 2002 - April 2002)
- **Delta River Bank** (October 2001 - December 2001)
- **Line of Sight** (June 2001 - September 2001)
- **Tritium Card** (February 2001 - June 2001)
- **A Console Networking** (September 2000 - November 2000)
- **Monterey Peninsula College** (July 2000- August 2000)

<u>Vice President, Director of Information Technology,</u> Transaction Auditing Group March 1999-June 2000

Transaction Auditing Group performs 'Quality of Execution' audits of stock trades for the major stock trading firms in the United States and Canada.
- Established and managed the Information Technology department and network infrastructure,
- Member of the senior management and strategic planning teams;
- Developed network infrastructure, multi-homed Internet connectivity, and redundant WAN connectivity to NY Stock Exchange (dual T3 and T1) and NASDAQ (dual T1);
- Designed data capture software to interface with NYSE and NASDAQ data feeds and backup satellite data feed;
- Designed software to integrate data from various primary and secondary data feeds;
- Developed utility programs in Microsoft Visual C++/MFC and Visual Basic on Microsoft Windows NT Servers and Workstations, and perl5 and ANSI C++ on BSD UNIX;
- Implemented Microsoft SQL Server 7 and interface libraries in Visual C++/MFC and Visual Basic.

<u>Software Consultant,</u> EarthWalk Designs Software   May 1997 - March 1999

Software consulting and design; Internet and World Wide Web development services; and computer networking. Developed Visual C++/MFC software to interface Windows NT Server applications to Informix SQL Server on HPUX platform; Developed World Wide Web, CGI and Internet-based applications on BSD UNIX servers in ANSI C++ and perl5 and client software in Java, JavaScript and HTML 4; Developed software and procedures to interface Microsoft SQLServer database to legacy proprietary database.

<u>Executive Director,</u> Collegis, Inc.   February 1992 - July 1997

Collegis, Inc., (formerly *Technology Specialists, Inc.*) is a leading technology consulting company providing technology solutions and out source management services to the academic and administrative areas of higher education.

Responsible for contract management, data center management, personnel management and contract deliverables on the client's site; managed personnel, software development and the daily operations of the Information Technology department; member of management, technology, academic and curriculum advisory committees; directed the development and implementation of policies, procedures and data collection standards, and programming in support of California statewide MIS Student Data Reporting System; developed integrated disaster recovery and business resumption plan for Information Technology; developed, installed and managed local and wide area networks and Internet connections.

CLIENTS and POSITIONS:
- **Interim Director of IT**, *Menlo College* (March 1997 - July 1997)
- **Director of IT**, *Antelope Valley College* (July 1996 - March 1997)
- **Director of Information Technologies**, *Yuba Community College* (February 1993 - June 1996)
- **Director of Programming and Technical Services**, *Monterey Peninsula College* (February 1992 - January 1993)

<u>Management and Software Consultant,</u> Wheeler Enterprises   April 1991 - March 1993

Software consulting, management and business resumption planning services. Bank operations and procedures, audit and regulatory compliance planning and review, and business resumption (disaster recovery) planning and testing; designed software to integrate mainframe (legacy) bank software systems to custom signature display hardware.

<u>Owner,</u> Simply Computers   December 1990 - January 1992

Owner and manager of a personal computer hardware and software retail sales business.

<u>Vice President/Administration</u>, Bank of Salinas   December 1986 - March 1991

Responsible for the administration and management of the ***Computer Operations***, ***Proof***, ***Bank Operations***, ***Tellers***, ***New Accounts*** and ***Bookkeeping*** departments. Developed department budgets and operational plans, including 1, 2 and 5 year personnel, equipment and facility growth plans; managed department budgets, equipment needs and personnel, including training, growth path, career development, performance reviews and wage enhancements (raises); established standards, policies and procedures manuals for bank operations and personnel; developed, documented and tested contingency and disaster recovery and business resumption plans for all bank departments; and ensured compliance with regulatory and auditing agencies.

<u>Senior Field Service Engineer</u>, Unisys Corp.   August 1982 - November 1986

Unisys Corporation (formerly Burroughs Corp.) is a manufacturer of mainframe and desktop computers, operating systems and application software. Responsibilities included customer account management (for 12 service customers), accounts receivable, parts and budget management, and daily assignments for a 6-member team of Field Service Engineers.

<u>Part-time Instructor</u>, Monterey Peninsula College   August 1980 - December 1988

Taught courses in the Computer Science curriculum, including ***Introduction to Computer Science***, ***Advanced Computer Science***, ***Cobol***, ***Lotus***, ***BASIC*** and ***Structured Programming and Data Structures***, and remedial courses in the Mathematics curriculum, including ***Algebra I***, ***Algebra II***, ***Geometry*** and ***Trigonometry***.

<u>Software Consultant</u>, W & W Computing Consultants   June 1980 - July 1982

Software design and development of multi-tasking and multi-user operating systems for use on 8-bit and 16-bit microcomputers.

<u>Senior Systems Programmer</u>, Monterey Peninsula College   July 1974 - June 1980

Design and implementation of data communications hardware and software interfaces; operating system enhancements and program interfaces; multi-tasking operating and data communications systems; and developed ISAM and DBMS file structures and support interface.

EDUCATION AND TRAINING

California State University San Jose. 1980.
  California Community College teaching credential.

Antioch University, San Francisco, California. (1978 - 1980).
  BA, Business Administration.

U.S. Naval Postgraduate School, Monterey, California. (1978 - 1979).
  Compiler Design Theory and Compiler Writing (Professor Gary Kildall).

University of California Santa Cruz, Santa Cruz, California. (September 1975 - June 1976).
  Physics and Mathematics. 30 credits.

Monterey Peninsula College, Monterey, California. (September 1972 - June 1974).
  Physics and Mathematics. 60 units.

U.S. Naval Nuclear Power Program. (August 1970 - April 1972).
  Physics, Mathematics, Engineering, Chemistry and Nuclear Reactor Design Theory.

Monterey Peninsula College, Monterey, California. (September 1968 - June 1970).
  Sociology and Psychology.