

# CHARLES A. (JAY) WHEELER

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516.605.0961

## **INFORMATION TECHNOLOGY SPECIALIST / PROJECT MANAGER**

I am looking for a position of challenge and growth that also provides a good measure of personal satisfaction.

The ideal position would be in a smaller business setting where my skills, leadership and mentoring abilities can be used to help the right growth of the company.

I bring to the table a vast repertoire of Managerial and Technical skills in Information Technology acquired in the Higher Education, Banking, Financial and Securities Industries.

These skills are applicable to ANY business needing an Information Technology Specialist with a good eye for the larger picture .

I work very well with persons on all organizational levels to transform 'ideas' into specifications and achievable projects.

I enjoy the challenge of overseeing a project and bringing together all of its disparate elements (clients, vendors, users, personnel, hardware, software, finances,...etc.) and taking it from specification to well-documented completed project/product.

## **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

## **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

**TECHNICAL EXPERTISE**

<b>Microsoft Desktop</b>	Windows Vista(business), Windows NT/2000, Windows 95/98/XP
<b>Microsoft Servers</b>	Windows 2000, Windows 2003 & WindowsNT Enterprise, Internet Information Server (IIS) and Enterprise Server, SQL Server 7
<b>Microsoft Software</b>	Visual C++, Microsoft C++, Microsoft Foundation Classes(MFC), Win32 API and SDK, ATL/COM/DCOM, ActiveX and OLE, ODBC, DAO, ADO and Recordset, OpenGL and GDI, Visual Basic, VBScript, Transact-SQL, ASP
<b>Desktop</b>	X-Windows/Gnome, SGI and SUN
<b>Unix Operating Systems</b>	BSD, NetBSD, FreeBSD, Linux (Red Hat, Fedora, Ubuntu, SuSe), H/P-UX, SCO
<b>Servers</b>	Novell 3.12/ 4, Apache and Netscape Enterprise Server, Informix, MySQL and mSQL
<b>Software</b>	<b>PHP 4</b> and <b>PHP 5</b> , GNU GCC, G++, wxWidets (wxWindows), Java 2, Java Beans and Enterprise Java Beans, HTML 4, DHTML, CSS, XML, JavaScript, Perl5, Perl6 (Unix and Cygwin), ActivePerl (Windows NT/2000/XP/Vista), Python, Tcl, SQL, STL
<b>Internet</b>	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)
<b>Networking</b>	DNS, WINS, DHCP, HOSTS, TCP/IP, IPX-SPX, SNMP, SMTP, BGP, VPN, FTP
<b>Project Management Tools</b>	Microsoft Project, Visio 5.0
<b>Unisys Mainframe</b>	A-Series (A-4FX, A-6D, A-9), MCPVI and MCPII, BNAV2 and NDL
<b>Digital Equipment</b>	VAX and AlphaServer (VMS, WindowsNT, DECNet)

**SOFTWARE EXPERTISE**

Software	Extent of Expertise	Skill [years of experience-last year used]
<b>C++</b>	Power User	Microsoft Visual C++ [10yrs-2008], Microsoft C++ [16yrs-2007], GNU GCC (C, C++) [12yrs-2007], Borland C++ [14yrs-2007]
<b>C++API, SDK and Technologies</b>	Power User	Microsoft Foundation Classes (MFC) [11yrs-2008], Microsoft Win32 API [16yrs-2007], Microsoft Windows Platform SDK [7yrs-2007], STL [7yrs-2007]
	Highly Skilled	Microsoft WTL [4yrs-2007], Microsoft ATL [6yrs-2007], Microsoft COM [8yrs-2007], Microsoft DCOM [2yrs-2002], Microsoft ActiveX [1yr-2007], wxWidets Cross-Platform API (C++) [4yrs-2005]
<b>Graphics API and SDK</b>	Highly Skilled	Microsoft GDI [10yrs-2007]
	Skilled	OpenGL [3yrs-2004]
<b>Basic</b>	Highly Skilled	Microsoft Visual Basic [12yrs-2007]
	Skilled	Microsoft Transact-SQL [3yrs-2005]
	Adequate	Microsoft VBScript [1yr-2000]
<b>Database API and SDK</b>	Power User	SQL [18yrs-2008], Microsoft ODBC [4yrs-2004], Microsoft DAO [2yrs-2004], Microsoft ADO [5yrs-2007], Microsoft Recordset [2yrs-2002]
	Skilled	JDBC [1yr-2004]
<b>Web Software</b>	Power User	DHTML [14yrs-2008], CSS2 [8yrs-2008], XML/RSS/XHTML [7yrs-2008]
<b>Scripting Languages</b>	Power User	PHP [7yrs-2008], Javascript [12yrs-2007]
	Highly Skilled	Perl [10yrs-2007], Tcl [2yrs-2005], Python [7yrs-2007]
<b>Internet Technologies</b>	Adequate	Microsoft ASP [2yrs-2001]
	Skilled	Microsoft ISAPI [5yrs-2005]
	Highly Skilled	CGI [12yrs-2007]
<b>Managed Code</b>	Adequate	Microsoft .NET [1yr-2007], Java 2 [4yrs-2005], Enterprise Java Beans [4yrs-2005]
	Skilled	Microsoft C# [1yr-2007]

**TYPE OF SYSTEM KNOWLEDGE**

<b>Platform</b>	<b>Knowledge Type</b>	<b>Skill</b> [years of experience-last year used]
<b>Microsoft Desktop</b>	Installed, Configured, Use	Windows Vista (Business) [2yrs-2008], Windows 98 [2yrs-2005]
	Installed, Configured, Use, Programmed	Windows XP Professional [4yrs-2008], Windows 2000 Professional [7yrs-2008], Windows NT4 [10yrs-2007], Windows 95 [3yrs-2000]
<b>Unix/Linux Desktop</b>	Configured, Compiled, Installed, Programmed	X-Windows [6yrs-2008], Gnome [1yr-2008], KDE [1yr-2007]
	Configured, Installed, Used	SGI [2yrs-1996], SUN [2yrs-1996]
<b>Microsoft Servers</b>	Configured, Installed, Programmed	Windows 2003 Server [2yrs-2006], Windows 2000 Server [7yrs-2008], WindowsNT Enterprise Server [8yrs-2007]
<b>Unix Servers</b>	Configured, Compiled, Installed, Programmed	BSD [6yrs-2001], NetBSD [4yrs-2001], FreeBSD [7yrs-2007]
	Programmed	H/P-UX [1yr-1997]
	Configured, Compiled, Installed	SCO [2yrs-1996]
<b>Linux Servers</b>	Configured, Compiled, Installed	Red Hat Enterprise Linux [1yr-2008]
	Configured, Compiled, Installed, Programmed	Fedora Linux [2yrs-2008]
	Configured, Installed	Ubuntu Linux [2yrs-2007], SuSe Linux [1yr-2007]
<b>Novell Servers</b>	Configured, Compiled, Installed, Programmed	Novell 3.12 [10yrs-2005], Novell 4.01 [10yrs-2005]
<b>LDAP Server</b>	Configured, Compiled, Installed, Programmed	OpenLDAP Server [1yr-2008]
	Configured, Installed, Programmed	IBM Tivoli LDAP Server [1yr-2007], Sun One LDAP Server [1yr-2007]
<b>Database</b>	Configured, Compiled, Installed, Programmed	MySQL [10yrs-2008]
	Configured, Installed, Programmed	Microsoft SQL Server 7 [4yrs-2002], Informix [1yr-1998], mSQL [3yrs-2006]
<b>HTTP (Web)</b>	Configured, Installed, Programmed	Microsoft Internet Information Server (IIS) [10yrs-2007]
	Configured, Compiled, Installed, Programmed	Apache Server [6yrs-2007]
	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)**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)

**PROFESSIONAL EXPERIENCE** (page 2)**Vice President, Director of Information Technology, 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.

**Software Consultant, 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 HP/UX 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 SQL Server database to legacy proprietary database.

**Executive Director, 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)

**Management and Software Consultant, 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.

**Owner, Simply Computers**

December 1990 - January 1992

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

**PROFESSIONAL EXPERIENCE** (page 3)**Vice President/Administration, 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.

**Senior Field Service Engineer, 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.

**Part-time Instructor, 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*.

**Software Consultant, 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.

**Senior Systems Programmer, 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.