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## QUALIFICATIONS

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- Creative, self-starter with over 15 years experience in IT, hardware, software, and mechanical engineering, business/data analysis, product development and project management.
- Able to make sense out of chaos. Skilled at translating between non-technical business problems and technical solutions. Patient with technically challenged users.
- Learns new technologies quickly as needed to get things done.
- Keen attention to detail while maintaining a broad perspective on the big picture.
- Excellent verbal and written communication skills as a native English speaker with a plethora of documentation experience ranging from in-house project proposals to end-user manuals.

**Recently used technologies:** VB (VBA/VB6/.net 2003/05/08), SQL Server 2000/05/08 (including T-SQL, stored procedures, triggers, SSRS and .Net CLR), C#, Java, JavaScript, HTML, XML, DHTML, CSS, Google Maps, COM, ClickOnce, ADO.Net, XP Services, MS Office 2003/07 including Access and Visio, IIS, SQL Server Reporting Services, Kofax Capture, Datacap, FileNet CS/P8, SourceGear Vault, MVC.

**Older technologies:** C++, C, 8051, 68000, FORTRAN, Pascal, ADA, BASIC, TCP/IP, Telnet, MFC, ATL, STL, Win32, MAPI, ActiveX, COM, DAO/ADO/ADOX, VSS, Code Warrior, NT Services, MATLAB

**Hardware technologies:** RS-232, GPIB, I<sup>2</sup>C, AutoCAD, Protel, OrCAD

**Certification:** FileNet Certified Professional Content Manager-Administrator 4.0

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## CONSULTING EXPERIENCE

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### Office of Communications and Information Technology

IT Analyst

County of Sacramento, CA  
September 2006 - Present

- Developed utilities for and migrated FileNet object stores from CS to P8.
- Created scan jobs using Datacap and Kofax.
- Implemented streamlining changes in the County's planning website using ASP.Net and Google maps.
- Created web services for consumption by SQL Server 2005 CLR using ASP.Net.
- Completed many conversions to move Access databases to SQL Server 2005 and SQL Server Reports.
- Wrote project requirements and design document for the CCD Case Management System (2 year project). Developed the system with SQL Server 2005 (including reporting services), Visual Basic 2005/2008, Infragistics controls, the Lhotka Business Object framework (MVC architecture) and many SQL Server Reporting Services reports.
- Implemented a VB.Net console application to synchronize data between SAP and SQL Server. Used the SAP.Net connector, VisualCron scheduler, FxCop code analyzer, CruiseControl.Net build server, and SourceGear Vault source code management.

### Charles Schwab Investment Management

Application developer

San Francisco, CA  
April 2006 - June 2006

- Analyzed client requirements and wrote a project plan to implement an employee bonus calculation system dealing with sensitive salary data.
- Implemented system using SQL Server 2005 (T-SQL, stored procedures, user defined functions, complex queries, column-level encryption and database diagram) and MS Access 2003 (VBA, ADO, and dynamic SQL queries).
- Provided training and documentation (user manual and developer docs). The new system allows the VP to do in about ten minutes what used to take nearly a day with the legacy Excel system.

**Intel Corporation**

Santa Clara, CA

Data analyst

May 2000 - June 2001

- Analyzed client requirements and wrote a project plan to implement a system to predict semiconductor manufacturing tool requirements.
- Implemented system with SQL Server 2000 (T-SQL, stored procedures, user defined functions, complex queries and database diagrams), Excel (VBA, charting), and MS Access (VBA, ADO, and dynamic SQL queries).
- Provided training and user manual. The system allows project planners to determine the optimum number of multi-million dollar tools needed for a particular manufacturing process based on run rate, availability, capacity and demand.

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**CORPORATE EXPERIENCE**

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**Pegasus Technologies, Inc.**

Sacramento, CA

Co-Founder/Owner/CIO/Senior Software/Hardware Engineer

June 1996 - Present

*Pegasus is an innovative engineering company that designs and builds stolen vehicle tracking systems. As this is an ongoing corporation, the time frame overlaps with consulting jobs.*

- Used Google Maps to create a real time vehicle tracking website.
- Used SQL Server 2000, VB6, C#, VC++ and ASP.Net to develop a UI and DLLs to interface with a chip programmer to program microcontrollers with unique IDs and parameters based on user input and to monitor production on the web.
- Invoked SQL Server 2000, DAO, ADO, MS Access, VC++ and VB6 to create a database application that keeps track of customers, generates reports, and provides a control interface for all vehicles and tracking units in the VectorTrac Stolen Vehicle Tracking system.
- Created the VectorTrac Software installation CD with custom installation programs (VB6) including the SQL Server database, VectorTrac server, client applications, and documentation. This software typically sells for \$100,000.00 to VectorTrac clients.
- Developed an alarm notification program with VB6, VB.Net WinForms, MAPI, and the Windows API that provides a visual and audible alarm upon a vehicle being stolen and sends a customized email.
- With SQL Server 2000, ASP.Net, C#, VB.Net, VB6, ActiveX, and ADO, created a configuration and testing system for use at a factory in China. After each unit has passed its tests, data is saved to a central database and the system prints the final product label. Production is monitored via the web.
- VC++, ATL, VB6, ADO and the Windows API were used to create an NT/XP Service to perform as a TCP/IP server. The server can manage hundreds of simultaneous connections, routing client requests to various resources such as a SQL Server database and an RF infrastructure. It uses the ZLib compression library and Windows encryption API and provides a Telnet interface.
- Used VB6 to create a software voltage monitor/logger that interfaces with a GPIB-capable voltmeter.
- Managed the product development of the Mini-Locator Unit (MLU). Wrote initial project proposal, design specification, mechanical CAD drawings, manufacturing guide, test procedures, installation instructions and trouble-shooting guide. Managed in-house and off-shore engineers for the hardware and firmware. Developed all configuration and testing software.
- Managed off-shore software engineers to create a web-based (ASP.Net, VB.Net, SQL Server) system to set a schedule to allow/disallow vehicles to leave the coverage area of the VectorTrac system. If a vehicle's schedule does not allow it to leave through a particular route at a particular time, its engine will be disabled automatically when it passes the checkpoint.
- Managed installation of the VectorTrac system in foreign countries including hiring of engineers, schedule planning, resource management and oversight of installation work performed.
- Negotiated contracts with foreign and domestic customers and suppliers.
- Various other duties including design and management of websites and database servers, maintenance of LAN, PowerPoint presentations for marketing, cash-flow analysis and whatever else needed to be done.

**Harris Digital Telephone Systems**

Senior Software Engineer

Novato, CA  
September 1995 - June 1996

- Used C to develop network application for Harris INServer (Windows NT on a switch).
- Implemented source code control scheme using ClearCase.
- Developed company intranet pages with MS FrontPage and IIS.
- Designed and built hardware tools to aid in software testing.

**EnergyLine Systems Inc.**

Applications Engineer

Berkeley, CA  
July 1994 - September 1995

- Developed company electronic time sheet application with MS Access
- Assisted customer with development of specification for furnace control system
- Designed, implemented, and tested firmware for furnace control system using proprietary C-like language
- Designed and built hardware tools to aid in software testing
- Developed thermostat prototype with Visual Basic

**Walt Disney Imagineering**

Electronics Engineer (Co-op)

Glendale, CA  
September 1991 - December 1992

- Researched parts for engineers
- Aided in design of Mickey's Toontown show control system
- Designed control boxes and other parts of control system with AutoCAD
- Managed production of control system
- Managed installation of control system in field (Disneyland)
- Tested and documented design of control system

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**EDUCATION**

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**California State University - Sacramento, CA**

January 2002 - June 2003

- Completed graduate courses in Microwave Engineering, Communication Systems and Advanced DSP.

**California Polytechnic State University - San Luis Obispo, CA**

January 1990 - June 1994

- Degree: BS Electronic Engineering
- Minor/Concentration: Computer science/Computer architecture
- GPA: 3.5
- Senior Project: Designed, built, and programmed (in C++) PC card voice mail system

**College of Marin - Kentfield, CA**

September 1986 - January 1990

- Lower division Engineering
- GPA: 3.0
- Tutored fellow students in algebra, trigonometry and logic

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**AFFILIATIONS AND OTHER INTERESTS**

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- Licensed private pilot
- PADI Certified advanced SCUBA diver
- Department of Consumer Affairs Certified Engineer In Training
- Eagle Scout, Order of the Arrow (scouting honor society)
- Interests: International travel, marine aquariums, golf, home theater, photography, wood working