



- ☑ Requirements
- ☑ Design
- ☑ Development
- ☑ Testing
- ☑ Support

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James Hunt

SUMMARY

I am an experienced Software Engineer who has provided extensive hardware integration and software design services on a variety of platforms and industries, and often help bridge the gap where hardware and software/firmware meet. I am also an effective enterprise level architect, having designed and implemented several multi-tier applications and as well as the hardware infrastructure, both physical and cloud based. I am an effective communicator, as well as innovative, and work equally well alone or as part of a team.

KEY SKILLS

Languages	ASP, ASP.Net, C/C++, C#.NET, HTML, Java, JavaScript, JSP, Perl, PHP, PL/SQL, Shell Script, SQL, T-SQL, UML, VB.Net, VBA, VBScript, VB6, XML
Databases	Access, MySQL, Oracle, SQL Server, SSRS
Internet / Intranet	Apache, DNS, IIS, POP3, SMTP, SOAP, WSDL
Tools / Utilities	Crystal Reports, Ghost, InstallShield, MS Project, PVCS, Rational Rose, RoboHelp, TOAD, VI Editor, Visual Source Safe, Visual Studio, Visual Studio.Net
Platforms	Citrix, Mac OS, MS DOS, Linux, UNIX, VxWorks, VmWare, Windows, Windows Server
Electrical	Communication Analyzers, Hardware Simulators, Logic Analyzers, Oscilloscopes

EXPERIENCE

Jul 13 – Current		Encore Music Productions – Manitowoc, WI Provider of fund raising services.
Title	Environment	<ul style="list-style-type: none"> ● Project(s): EncoreCRM and Reporting tools. <ul style="list-style-type: none"> ▪ Reverse Engineered a proprietary DOS based application used to maintain customer and sales data. ▪ Designed and implemented a .NET replacement for the above system. ▪ Created utilities to clean-up 12 years of sales data. ▪ Designed and created various SSRS reports for daily and quarterly reporting.
Consultant	Windows	
Role(s)	Skills/Tools	
Application and Database Development	Visual Studio 2010, WPF,WCF, C#.NET, SQL Server 2008, SSRS, Silverlight	
Apr 12 – Jun 13		Kohler Power Systems – Kohler, WI Manufacturer of power generation equipment
Title	Environment	<ul style="list-style-type: none"> ● Project(s): Various projects as needed. <ul style="list-style-type: none"> ▪ Designed and implemented a multi-tier application in the cloud for the next generation of product monitoring. ▪ Designed and implemented an entity based framework for the Oncue and SiteTech product lines. ▪ Designed and created various Windows applications to help develop and test communication protocols.
Consultant	Windows and Cloud	
Role(s)	Skills/Tools	
Application and Cloud Development	Visual Studio 2010, WCF, C#.NET, SQL	

	Server 2008, Amazon Web Services, SSRS	
Apr 11 – Apr 12	Kohler Power Systems – Kohler, WI Manufacturer of power generation equipment	
Title Consultant	Environment Embedded	<ul style="list-style-type: none"> ● Project(s): Various projects as needed. <ul style="list-style-type: none"> ▪ Effective member of the Kaizen team that was tasked with investigating processor loading and utilization. ▪ Created and implemented a watchdog and task monitoring system for embedded controller system, which allow for profiling and budgeting of CPU utilization.
Role(s) Embedded Development	Skills/Tools uVision	
Mar 11 – Aug 11	Menasha Joint School District – Menasha, WI Provider of public education	
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Online Summer School Spanish Website. <ul style="list-style-type: none"> ▪ Updated the existing summer school application to allow for the real-time translation of student/parent portions into one or more foreign languages. ▪ Designed and created a web interface for translators to translate content into any language based on context. ▪ Created and updated reports as requested. ▪ Aided with state reporting of attendance.
Role(s) Application Development	Skills/Tools Visual Studio, ASP, SQL Server 2005, IIS 7	
Oct 10 – Feb 11	Kohler Power Systems – Kohler, WI Manufacturer of power generation equipment	
Title Consultant	Environment Windows, Embedded	<ul style="list-style-type: none"> ● Project(s): OnCue Server and various projects as needed. <ul style="list-style-type: none"> ▪ Helped create a framework that would allow generators to communicate through the internet to a central server. ▪ Updated embedded firmware for several product lines using the Arm 7 (Keil uVision) and PIC (MPLAB) micro-controllers. ▪ Developed UML Sequence diagrams for new and existing systems.
Role(s) Application and Embedded Development	Skills/Tools Visual Studio 2010, WCF, C#.NET, SQL Server 2008, uVision	
June 10 – Aug 10	Pierce Manufacturing – Appleton, WI Manufacturer of fire apparatus equipment	
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Various applications as needed. <ul style="list-style-type: none"> ▪ Created a batch export utility to move data from a legacy AS400 system to SQL Server, which was completely configurable thru an XML configuration file for multiple programs and tasks. ▪ Updated the existing email assembly code to include stream driven attachments for their mobile frame system. ▪ Created a new Installshield project for the Pulse application, which is used by sales staff to build proposals and work orders for new fire vehicles.
Role(s) Application Development	Skills/Tools Visual Studio 2008, C#.NET, VB.NET, SQL Server 2008, Installshield 2010	

Sept 09 – May 10		Menasha Joint School District – Menasha, WI Provider of public education
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Summer School Online Registration. <ul style="list-style-type: none"> ▪ Created a new summer school application to reduce redundant manual processes, and to integrate with their student management system. ▪ Allowed direct and real-time access to student and course information, allowing parents to login and register their child for summer school courses appropriate for their age and grade level. ▪ Created an ASP web interface and custom database scripts. ▪ Interfaced with PayPal for direct payment of course fees. ▪ Creation of reports for the Wisconsin DPI.
Role(s) Architecture Development	Skills/Tools Visual Studio, ASP, SQL Server, IIS	
Apr 09 – Jun 09		National Audit – Green Bay, WI Provider of medical record auditing
Title System Architect	Environment Windows / Linux	<ul style="list-style-type: none"> ● Requirements gathering and initial mock-up of a new workflow system. The focus of this project was to create a new system that would replace several legacy systems currently in place. The focus of this project was to bring everything under a 'unified' system that would require less training and support, and well as needed 'scalability' to allow the company to maintain double digit growth.
Role(s) Architecture Development	Skills/Tools Visual Studio, ASP.NET MVC, SQL Server, IIS	
Mar 09 – Mar 09		Kaukauna Area School District – Kaukauna, WI Provider of public education
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Researched and resolved several intermittent server delays. The focus of this project was to identify and correct asynchronous delays between a SQL Server and IIS that were due to network traffic and cursor location.
Role(s) Architecture Development	Skills/Tools Visual Studio, ASP, SQL Server, IIS	
Jan 09 – Feb 09		Scott Menzel / Visualante Arts – De Pere, WI Artist
Title Consultant	Environment Mac OS / iPhone	<ul style="list-style-type: none"> ● Created a functional prototype AAC (Augmentative and Alternative Communication) application for the iPhone / iPod Touch. The focus of this project was to provide an inexpensive alternative to much more expensive proprietary devices.
Role(s) Applicaton Development	Skills/Tools XCode	
Aug 08 – Dec 08		Kaukauna Area School District – Kaukauna, WI Provider of public education
Title	Environment	<ul style="list-style-type: none"> ● Designed and created a stand-alone database driven web

Consultant	Windows	application for Professional Development for the district. The focus of this project was to allow professionals to 'propose' courses, and keep track of enrollment, fees and payment information. Created an ASP web interface, along with a custom database.
Role(s) Architecture Development	Skills/Tools Visual Studio, ASP, SQL Server, IIS	
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Jun 08 – Jul 08	Data Info Systems, LLC – De Pere, WI IT consulting firm	
Title Consultant	Environment Windows	<ul style="list-style-type: none"> Created a utility to convert contact and customer information from Corel Suite to MS Office. The focus of this project was to move customer information to MS Office, which involved decoding file formats and writing custom conversion code.
Role(s) Architecture Development	Skills/Tools VB.Net, MS Office, Corel Suite	
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Mar 08 – May 08	Experimental Aircraft Association (EAA) – Oshkosh, WI International membership organization encouraging and supporting recreation aviation	
Title Consultant	Environment Windows	<ul style="list-style-type: none"> Updated the existing Air Venture management software to allow for improved pilot and aircraft thru-put. The focus of this project was to allow lookup of previous Air Venture data, and pre-populate registration forms used during check-in. Created database tables, stored procedures, and changes to application code.
Role(s) Architecture Development	Skills/Tools SQL Server, Visual Basic	
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Jul 07 – Feb 08	Kaukauna Area School District – Kaukauna, WI Provider of public education	
Nov 07 – Feb 08	Environment Windows	<ul style="list-style-type: none"> Project: Summer School Program. <ul style="list-style-type: none"> Updated the existing summer school application to reduce redundant manual processes, and to integrate with their student management system. Allowed direct and real-time access to student and course information, allowing parents to login and register their child for summer school courses appropriate for their age and grade level. Created an ASP web interface and custom database scripts.
Title Consultant	Skills/Tools SQL Server, ASP, Infinite Campus	
Role(s) Architecture Development		
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Jul 07 – Oct 07	Environment Windows	<ul style="list-style-type: none"> Project: District Lunch Program. <ul style="list-style-type: none"> Updated and enabled online access to the district lunch program, and integrated it with stand-alone phone messaging software. Allowed parents to monitor their child's purchase activity, and alert them by phone if their account balance was to fall below an account minimum balance. Provided custom database scripts and integrated with third party applications.
Title Consultant	Skills/Tools SQL Server, LunchBox, School Messenger	
Role(s) Architecture Development		

Mar 07 – Jun 07		J.J. Keller and Associates, Inc. – Neenah, WI Leading supplier of safety compliance solutions for manufacturing, transportation, etc.
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: KellerSoft. <ul style="list-style-type: none"> ▪ Updated products to work with Windows Vista. ▪ Evaluated, documented and updated the KellerSoft product line. ▪ Updated application codes, third party controls, and install projects.
Role(s) Architecture Development	Skills/Tools Visual Basic, C#.Net, InstallShield	
Jan 07 – Feb 07		Data Info Systems, LLC – De Pere, WI Information technology consulting firm
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Designed a worked framework for a HECP (Hazardous Energy Control Procedure) system. ● Automated the entry of HECP's and provided an audit trail. ● Reviewed current written documentation, database design, and coding.
Role(s) Architecture Design Development	Skills/Tools Visual Basic, Access	
Jul 06 – Jan 07		Georgia Pacific – Green Bay, WI Leading manufacturer and distributor of tissue, pulp, paper, and related products
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Passport. <ul style="list-style-type: none"> ▪ Created a C#.NET web front-end to allow vendor pricing export, import, and processing into Indus Passport. ▪ Allowed global pricing of 'Market Baskets', which could be used by purchasing to ensure an optimal buying strategy. ▪ Provided the clean up and split of an extremely large (26 Gig) SourceSafe database.
Role(s) Architecture Development	Skills/Tools IIS, C#.NET, Oracle, PL/SQL, Visual SourceSafe, Toad	
Title Consultant	Environment Windows, UNIX	<ul style="list-style-type: none"> ● Project: Warehouse Logistics. <ul style="list-style-type: none"> ▪ Specified and created a swing based application to view SAP and DLx interface records using introspection and reflection. ▪ Specified and created 'Intellipurge', which was an intelligent framework to allow for record purging based on rules, rather than dates. ▪ Acted as group mentor, giving numerous tips and tricks for Toad and JBuilder.
Role(s) Architecture Development	Skills/Tools Java, Oracle, Toad, PL/SQL, Perl, UNIX Scripting, Visual SourceSafe	
Jun 06 – Jul 06		Data Info Systems, LLC – De Pere, WI Information technology consulting firm
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Designed and created a 'batch' history viewer. ● Provided real-time and historical display of 'ingredients' and 'processes' used in the papermaking industry. This information was then used to help identify differences in batch
	Skills/Tools	

Role(s) Architecture Development	Visual Basic, Flat Files	quality.
Mar 06 – Jun 06		
Wisconsin Public Service Corporation – Green Bay, WI Natural gas and electric utility company		
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Customer Care <ul style="list-style-type: none"> ▪ Updated and created several batch applications for an Open-CIS system. ▪ Corrected and added functionality. ▪ Gathered requirements and provided coding, stored procedures, and wrote test documentation.
Role(s) Analysis Development	Skills/Tools Visual C++, SQL Server, SourceSafe	
Feb 06 – Mar 06		
Data Info Systems, Inc. – De Pere, WI Information technology consulting firm		
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Documented and updated a banking help desk system. ● Corrected and added new functionality to an existing implementation.
Role(s) Architecture Development	Skills/Tools ASP, VB.NET, SQL Server	<ul style="list-style-type: none"> ● Updated and created stored procedures, web-based interface design, and package deployment.
Jan 06 – Feb 06		
Leverage Point Media – Hoffman Estates, IL Marketing solutions & services to pharmaceutical & consumer packaged goods marketers		
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Performed reverse engineering and updated a portion of a web-based solution. ● Corrected and added new functionality to an existing implementation, which was missing source code. ● Used tools to recover and update source code, and package deployment.
Role(s) Architecture Development	Skills/Tools ASP, VB.NET, SQL Server	
Nov 04 – Dec 05		
Georgia Pacific – Green Bay, WI Leading manufacturer and distributor of tissue, pulp, paper, and related products		
Nov 05 – Dec 05 Title Consultant	Environment Windows, UNIX	<ul style="list-style-type: none"> ● Project: Warehouse Logistics. <ul style="list-style-type: none"> ▪ Specified and created a DC-to-DC warehouse logistics transfer system. ▪ Added dynamic ASN transfer functionality between several instances of Red Prairie. ▪ Gathered requirements and interface specifications, SQL and UNIX scripts, and JAVA routines.
Role(s) Architecture Development	Skills/Tools Java, Oracle, SQL, Toad, UNIX Scripting, Visual SourceSafe	
Jun 05 – Oct 05 Title	Environment Windows, UNIX	<ul style="list-style-type: none"> ● Project: Sales and Operation Planning. <ul style="list-style-type: none"> ▪ Assisted with the design and implementation of a Manugistics Forecast Improvement project.

Consultant	Skills/Tools Oracle, PL/SQL, Toad, UNIX Scripting, Visual SourceSafe	<ul style="list-style-type: none"> ▪ Improved batch run times and provided a stable platform for the latest version of Manugistics Forecasting tools. ▪ Updated many PL/SQL routines, UNIX scripts, and Oracle database triggers.
Role(s) Architecture Development		
Nov 04 – May 05	Environment Windows, UNIX	<ul style="list-style-type: none"> ● Project: Warehouse Logistics. <ul style="list-style-type: none"> ▪ Specified and created a warehouse logistics system interface upgrade between Red Prairie and SAP. ▪ Added commercial paper product logistics to the current system. ▪ Gathered requirements and interface specifications. ▪ Created over 50+ technical documents and created 200+ new JAVA routines.
Title Consultant	Skills/Tools Java, Oracle, SQL, Toad, UNIX Scripting, Visual SourceSafe, Visual Basic	
Role(s) Architecture Development		
Oct 04 – Nov 04		
Eggert Electronic Engineering – Alamogordo, NM Design and manufacture stepper motor control interface circuit boards		
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Motor Controller Product Development. <ul style="list-style-type: none"> ▪ Specified and created custom ActiveX controls for the SSC1 and SSC3 motor controls systems, as well as example programs in multiple high level languages. ▪ Created an easy to use solution for developers to incorporate stepper motor control systems easily into their existing software. ▪ Produced COM components written in C++, which could just be dropped into any environment that supported the COM object model.
Role(s) Architecture Development	Skills/Tools Visual C++, MFC, Visual Basic, ActiveX, RS-232	
Oct 03 – Sep 04		
School Specialty, Inc. – Appleton, WI Leading provider of educational products, programs, and services		
Title Consultant	Environment Windows, UNIX	<ul style="list-style-type: none"> ● Specified and created portions of a web based order capture system, as well as specifying and creating an integrated faxing solution for the above order capture system. ● Improved the functionality and response time for the order capture web-based interface. ● Compiled complete system metrics, which were used to optimize overall system performance.
Role(s) Architecture Development	Skills/Tools Java, Oracle, SQL, Toad, JProbe, Eclipse, Yantra, Biscom, iText, IIS, UNIX Scripting, JavaScript, HTML, XML, JSP, JMS, BEA WebLogic	
Mar 03 – May 03		
Sparton Electronics – Deleon Springs, FL Design, manufacture and distribute for outsourcing OEMs		
Title Consultant	Environment Windows	<ul style="list-style-type: none"> ● Project: Medical/Defense Product Development. <ul style="list-style-type: none"> ▪ Specified and created a motor test platform for a rapid infusion system, as well as diagnostic firmware for a DOD sonobuoy.

<p>Role(s) Architecture Development</p>	<p>Skills/Tools Visual C++, MFC, TI DSP C, Assembly, Visual SourceSafe, Keil C (8051)</p>	<ul style="list-style-type: none"> ▪ Created a test bed for the research and development of a suitable pump control system. ▪ Produced custom hardware using the Triscend development platform and an off the shelf ISA 4127 DC motor control card.
<p>Jun 96 – Jan 03 GE Healthcare (Lunar) – Madison, WI Provides services in medical imaging and information technologies</p>		
<p>Sep 01 – Jan 03 Title Consultant Role(s) Architecture Development</p>	<p>Environment DOS, Windows Skills/Tools VxWorks, Visual C++, MFC, SQL, Access, Visual Basic, Keil C (8051), RS-232, Visual SourceSafe, TCP/IP</p>	<ul style="list-style-type: none"> ● Project: Ultrasound Product Development. <ul style="list-style-type: none"> ▪ Specified and created several Pocket-PC based applications to support the Achilles Insight ultrasonometer, as well as specialized custom hardware to download new ultrasonometer firmware in the field. ▪ Created easy to use solutions for doctors and technicians to view and diagnose patient test results, without the need for a PC. ▪ Created Pocket PC applications written in Visual C++ to download and display ultrasonometer results and trends.
<p>Jun 00 – Sep 01 Title Lead Insight Firmware Engineer Role(s) Development</p>	<p>Environment DOS, Windows Skills/Tools VxWorks, Visual C++, Visual Basic, Visual SourceSafe, RS-232, TCP/IP, Assembly</p>	<ul style="list-style-type: none"> ● Project: Ultrasound Product Development. <ul style="list-style-type: none"> ▪ Smoke-tested and debugged all Insight system hardware, and specified and created all hardware drivers and low-level firmware routines. ▪ Created an environment for research and development, and a stable platform for the production version. ▪ Wrote Assembly and C routines to initialize and control all aspects of device operation, including LCD, motor, and transducer array.
<p>Feb 00 – Sep 01 Title Lead Insight DSP Engineer Role(s) Development</p>	<p>Environment DOS, Windows Skills/Tools Visual C++, Visual Basic, TI C, Assembly (TMS3206X), RS-232, TCP/IP</p>	<ul style="list-style-type: none"> ● Project: Ultrasound Product Development. <ul style="list-style-type: none"> ▪ Specified and created the initial proof of concept imaging engine for the Achilles Insight ultrasonometer. ▪ Created an environment for research and development, and a stable production platform for acoustic beam form imaging. ▪ Wrote highly optimized C and Assembly code for the DSP Coprocessor.
<p>Sep 99 – Sep 01 Title Lead Express Firmware Engineer Role(s) Development Support</p>	<p>Environment DOS, Windows Skills/Tools Visual C++, Visual Basic, Keil C (8051), 8051 Assembly, RS-232</p>	<ul style="list-style-type: none"> ● Project: Ultrasound Product Development. <ul style="list-style-type: none"> ▪ Released and maintained firmware for the Achilles Express ultrasonometer. ▪ Specified and created new features for printing, firmware downloading and device configuration. ▪ Provided support and new features for the Express ultrasonometer. ▪ Created and optimized C and Assembly routines, released using formal FDA software guidelines.
<p>Aug 97 – Sep 01 Title enCORE Software Engineer</p>	<p>Environment Windows Skills/Tools</p>	<ul style="list-style-type: none"> ● Project: DEXA Product Development. <ul style="list-style-type: none"> ▪ Specified and created many portions of the enCORE software platform, which included all communication with the medical devices, configuration, and reporting. ▪ Improved and enhanced the base software product used

Role(s) Development	Visual C++, Access, SQL, UML, MFC, Visual SourceSafe, Crystal Reports, RS-232	to control DEXA scanners, and display patient results and trends. <ul style="list-style-type: none"> ▪ Wrote this large application framework in MFC.
May 97 – Feb 98 Title Lead Prodigy Firmware Engineer Role(s) Development	Environment DOS, Windows Skills/Tools Visual C++, Keil C (8051 and 80251), 8051 Assembly, Orcad, RS-232	<ul style="list-style-type: none"> ● Project: DEXA Product Development. <ul style="list-style-type: none"> ▪ Smoke-tested and debugged all Prodigy system hardware. ▪ Specified and created all hardware drivers and low-level firmware routines. ▪ Served as a research and development test bed, and served as a stable platform for production. ▪ Created C and Assembly routines to initialize and control all aspects of the product, including X-Ray and motor control.
Jun 96 – May 97 Title DEXA Software Engineer Role(s) Development Support	Environment DOS, Windows Skills/Tools Visual SourceSafe, Watcom C++, RS-232	<ul style="list-style-type: none"> ● Project: DEXA Product Development. <ul style="list-style-type: none"> ▪ Added many new features to the DPX-IQ software application, which included IQ-NET and update ability of older DPX-IQ systems. ▪ Supported and enhanced the PC software used to control and report patient results for the DEXA densitometer. ▪ Created and updated routines written in C, to support new features and bug fixes.
<hr/> May 95 – Jun 96 COM-TEC Inc. – Appleton, WI Custom design and manufacturer of electronic security and communication systems <hr/>		
Nov 95 – Jun 96 Title Product Development Engineer Role(s) Development Support	Environment DOS, Windows Skills/Tools Visual C++, Visual Basic, Orcad, AutoCAD, RS-232, RS-485	<ul style="list-style-type: none"> ● Specified and created the next version of a proprietary touch screen detention control system. ● Supported all company hardware and software. ● Created and supported products unique to this industry and company. ● Created and debugged custom software, firmware and hardware.
May 95 – Nov 95 Title Design Engineer Role(s) Design Development	Environment DOS, Windows Skills/Tools Visual C++, Borland Turbo C++, Visual Basic, AutoCAD, 8088 Assembly, RS-232, RS-485	<ul style="list-style-type: none"> ● Designed custom control systems using proprietary hardware and PLC's. ● Performed the layout and construction of custom control systems used for inmate detention. ● Provided custom PLC's programming, control panel layout, and design drawings and documentation.

EDUCATION

Silver Lake College, Manitowoc, WI
BBA Degree in Business and Computer Science
BM Degree in Music Education and Performance

**CERTIFICATIONS
AND ADDITIONAL
TRAINING**

Six Sigma
VB.Net Training
Arrow VHDL Training
TMS3206X DSP Design Workshop
Embedded Systems Conference
Altera Programmable Logic
Power Quality Seminar
