



ERIC J. HAWKINS
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Objective: Seeking a position in the software development industry. Desire to utilize a strong educational and employment background, while eager to learn and engage in new experiences, all within a challenging and rewarding environment.

Coursework Enhancements:

Software Architecture and Design, Georgia Tech University OMSCS, Udacity.com
Software Development Process, Georgia Tech University OMSCS, Udacity.com
Software Analysis and Testing, Georgia Tech University OMSCS, Udacity.com
Eigenvectors and Eigenvalues, Udacity.com
UML Class Diagrams for Software Engineering, KU Lueven University, Edx.org
MVC Application Design With .Net Core 2.0, Microsoft – Dev250x, Edx.org
Introduction to Python, Microsoft – Dev330x, Edx.org
Data Science Essentials, Microsoft – Dev203.1x, Edx.org
Introduction to Python For Data Science, Microsoft – Dev208x, Edx.org
Angular Fundamentals, Microsoft – Dev314x, Edx.org
Advanced Angular, Microsoft – Dev315x, Edx.org
Data Access in C# and .Net Core – Dev258x, Edx.org
Windows PowerShell Basics – Inf210, Edx.org
Applications With REST Services – Dev332x, Edx.org
Analyzing and Visualizing Data With Excel – Dev206x, Edx.org
Essential Statistics for Data Analysis using Excel – Dev222x, Edx.org
C-Tech Certification in Telecommunication, Copper and Fiber Optic Technologies

Relevant Professional Experience:

6/18-8/18 Machine Operator

Atlas, Inc., Elk River, MN

- Operate CNC machines, maintaining production specification and rates, performed quality assurance and control on parts. Efficient use of calipers, micrometers, pin gauges and other instruments to assure quality compliance before packaging.

12/17-6/18 Machine Operator

PeopleReady, Inc., Elk River, MN

- Operate Injection Molding machines, maintaining production specification and rates, performed quality assurance and control on parts. Efficient use of calipers, micrometers, pin gauges and other instruments to assure quality compliance before packaging.

1/17-6/17 Machine Operator

Express Employment Inc., Rogers, MN

- Operated CNC machines, maintaining production specification and rates, performed quality assurance and control on parts, and performed inspections on incoming materials.
- Setup and operated saw, cutting raw stock to specification.
- Performed shop maintenance and cleanup, preparing CNC machines for sale and delivery.

8/08-1/09 **Principle Architect**

MDData Corp., Alpharetta, Georgia

- Re-architected HIPAA-compliant application suite for managed care system, using Visual Studio, C#, ASP.Net, .Net Framework 3.5, Microsoft Exception Handling Block, NHibernate, Windows Communication Foundation, Oracle Database, NUnit and NMock.
- Led 12 member development team

5/08-8/08 **Application Architect**

Comframe Software Corp. Birmingham, Alabama

- Architect client applications using Visual Studio, C#, Sharepoint Server, ASP.Net, .Net Framework 3.5, Microsoft Exception Handling Block, Windows Communication Foundation and Windows Virtual Server

12/07-4/08 **Principle Architect**

EDS, Columbia, South Carolina

- Led a team of 5 architects, creating artifacts to enable the development of enterprise-wide, time and mission-critical solutions for the Child Support Enforcement and Family Court Systems.
- Developed, implemented and enhanced reference architecture for solutions, using Visual Studio, C#, ASP.Net, .Net Framework 3.5, Microsoft Web Client Software Factory, Microsoft Exception Handling Application Block, NHibernate, Windows Communication Foundation, Microsoft SQL Server 2005, NUnit, NMock, and NCover.
- Defined Patterns, Principles and Practices based on agency, stakeholder and technology requirements, and produced corresponding Developer Guidelines for developers.
- Established and developed comprehensive zero-based Software Development Process guideline artifacts, including Coding Standards, Build Management, Unit Testing, Code and Design Review Standards and Guidelines, Issue Management and Tracking, SCRUM and Agile Development Methodologies.
- Developed and implemented New Employee training curricula, leading several courses e.g. Design by Contract, J2EE and Enterprise Patterns, NUnit, Subversion, Microsoft Web Client Software Factory, NHibernate, Windows Communication Foundation, Domain Driven Design, etc.
- Implemented and utilized The Open Group Architecture Framework and Zachman Framework to better organize and successfully implement the Enterprise Architecture solution.
- Collaborated with key stakeholders to develop and implement Enterprise Wide Security Architecture and Specific Application Security implementations.
- Developed Section 508 Accessibility Requirements, Guidelines and Testing Processes.

- Developed Proof of Concept Prototype for Enterprise Wide Replication and Messaging solution capabilities. Collaborated with internal teams, state agencies and court administrators to define cost/benefit analysis and Total Cost of Ownerships scenarios for Distributed Architecture Options.
- Architected, developed and implemented Custom SharePoint Application to support Human Resources Merit Pay tracking, using SmartParts, ASP.Net, Windows SharePoint Service Classes, Web Parts, C# and SQL Server 2005.

11/06 – 12/07 Principle Architect

TestQuest Corporation, Chanhassen, Minnesota

- Re-architected and designed the Countdown Mobile Device Platform Automation Test Tool, using UML, Use Cases and Design By Contract implementations, Windows Communication Foundation classes, .Net Framework 3.0, Biztalk Relay Services, NHibernate, Microsoft Visual Studio, C#, Microsoft SQL Server 2005, Team Foundation Server, PowerShell and Windows Sharepoint Services.
- Architected and designed the Countdown Mobile Device Platform Automation Test Tool version 1.7 to enable the application to use Enterprise-wide capabilities, using UML, Use Cases and Design By Contract implementations, Microsoft Visual Studio, C#, Microsoft SQL Server 2005, Team Foundation Server, and Windows Sharepoint Services.
- Led 42 contractor development team located in St. Petersburg, Russia. Implemented Agile development practices, including Pair Programming, Test Driven Development, Morning Standup meetings, and Short Cycle Iteration and Demonstration and Acceptance Tests (2 week cycles).

5/06- 11/06 Project Architect

Modis, Inc.

Hutchinson Technologies, Hutchinson, Minnesota

- Architected developed and implemented Manufacturing Execution System portal for a multi-site production control system, using ASP.NET, C#, VB.NET, Microsoft SQL Server 2005, XML, Visual Source Safe, Camstar Insite, and Oracle 9i.
- Participated in the development and implementation of Production Control System using Camstar Insite, ASP.NET, VB.NET, Internet Information Services, Visual Source Safe, XML and Web Services.

4/06- 5/06 Project Consultant

Modis, Inc.

US Bank, St. Paul, Minnesota

- Participated in development of strategic business application using Visual Studio 2005, C#, ASP.NET, Net Framework 2.0, Microsoft SQL Server 2005, XML, Visual Source Safe and Microsoft Enterprise Library Application Blocks 2.0.

1/06- 5/06 Project Consultant

VIP, Inc

Cargill, Inc., Minnetonka MN

- Participated in architecture and development of strategic business application using Visual Studio 2005, C#, .Net Framework 2.0, Microsoft SQL Server 2005, XML, Visual Source Safe and Microsoft Enterprise Library Application Blocks.

6/05- 1/06 Project Consultant

Modis Inc.

Nextel Partners, Eden Prairie MN

- Architected, designed and developed Service Oriented Architecture and Service Deployment to support automated and Customer Care processes, using Visual Studio, C#, VB.Net, ASP.NET, .Net Framework, Microsoft SQL Server, Oracle 9i, Web Service Extensions 2.0, Kerberos Authentication Security Technologies, XML, Visual Source Safe and Microsoft Enterprise Library Application Blocks.
- Architected designed and developed real-time reporting system for company-wide accountability services using ASP.NET, VB.NET, Internet Information Services, Microsoft SQL Server and Microsoft Reporting Services.
- Architected designed and implemented application framework for efficient code reuse, application of Software Factory practices, and use of object repositories to minimize application development lifecycle.

4/05- 9/05 Project Consultant

Robert Half, Inc.

Creative Memories, Inc, St. Cloud, MN

- Migrated Automated Interactive Voice Response application from Microsoft Visual Basic 6 to Microsoft C#, to enhance automated screen manipulation routines for Customer Care agents, using Visual Studio, C#, .Net Framework, Visual SourceSafe, SAP and IVR technologies.

7/04- 4/05 Project Consultant

Lifecycle Technologies, Inc.

Banker's Systems, St. Cloud, MN

- Architected, designed and developed Application Framework to serve future projects with consistent development and user environments utilizing Visual Studio, C#, .Net Framework and MSIL languages, Web Services. Microsoft Visio, SQL Server MSDE, Oracle, and Visual SourceSafe code repository.
- Designed and developed scalable multi-tier Customer Connection application, using Application Framework, C# and the .Net Frameworks, .Net threading model, utilizing Web Services, SQL Server MSDE, Oracle and NUnit tools.
- Developed Realtime Scanner and Barcode components for Document Imaging initiative using C#, the .Net Framework 1.1.
- Implemented Corporate coding standards for application development projects using the C# language and .Net Framework.
- Migrated internal issue tracking Application written in Microsoft Visual Basic to Visual Basic.Net, Microsoft SQL Server and Microsoft Report Services.

6/04- 12/06 Project Consultant

Hawkins Software and Design, Elk River, MN

- Architected and designed proprietary Commercial Real Estate analysis tool
Architected designed and developed framework and single proof of concept application to verify design utilizing Microsoft C# and the SharpDevelop IDE at request of client. Development schedule and planned release dates were constructed.
- Developed prototype application using the SharpDevelop C# IDE, ADO.NET, and Microsoft SQL Server MSDE.

6/04- 7/04 **Project Consultant**

Amplifon Group, Plymouth, MN

- On-going consultation agreement assisting Software Development group in strategic planning and analysis of software platforms, architecture, development issues and integration.

12/03 – 4/04 **Project Consultant**

Hawkins Software and Design, Inc.

Symbology Corporation, Maple Grove, MN

- Developed Realtime Barcode Verifier Application, to support the RJS SV200 Verification series, using Microsoft C#, ADO.Net, .Net threading model and Microsoft Access
- Developed DataMatrix barcode generator using Visual Basic.Net and C# and the Microsoft.Net Framework.

8/03- 10/03 **Project Consultant**

Hawkins Software and Design, Inc.

Abelconn LLC, New Hope, MN

- Led system upgrade and migration project. Migrated corporate server implementation from NT Server to Windows 2000, upgraded Microsoft Exchange and Symantec Virus protection, and installed and configured Veritas Backup Exec. Established corporate Disaster Recovery Plan. Upgraded 110 client machines to Windows 2000 and XP, established corporate standard desktop policy. Implemented Tech Support Tracking system. Established desktop application roll-out plan and implemented the plan.
- Created corporate Intranet to help centralize and ease access to reports, using Microsoft SQL Server, ASP.NET and Microsoft Reporting Services.
- Performed various ongoing maintenance and tech support projects
- Trained Abelconn staff on utilization of Microsoft Outlook, Microsoft Exchange and Microsoft 2000 Server.
- Developed Material tracking application to support multiple vendor part numbers, using Microsoft Visual Basic, SQL Server 2000, DB/400.
- Developed Vendor Quality Tracking and Report Card system, using Microsoft C#, DB/400, ADO.Net, SQL Server Data Transformation Services, and Microsoft Access.
- Performed maintenance tasks on corporate web site, trained and mentored Abelconn IT staff on Microsoft FrontPage and web maintenance tasks.

4/03- 12/03 **Project Consultant**

Hawkins Software and Design, Inc.

Dyna-Plast Corporation, Ramsey, MN

- Performed corporate wide JobBOSS upgrade and migration from version 5.04 to 7.4.
- Performed Analysis of Business Practices, Production Processes, Inventory Tracking and Accounting Standards. Used weekly meetings with Subjects Experts to ascertain best strategies for implementation of more efficient systems. Presented findings and proposals to Principals, President and Controller. Proposals were accepted.
- Reengineered Tooling and Production processes to improve material control tracking, job process tracking and accountability standards. Implemented Bin/Tag inventory system using bar coding technology to track material movement. Implemented custom reports to improve online job tracking and monitoring using Crystal Reports 9.0.
- Architected, designed and implemented corporate wide Intranet Services to expedite Human Resource and Business practices, utilizing Microsoft IIS and Windows Small Business Server, Microsoft Front Page and ASP.Net.
- Performed technical support responsibilities, including upgrading desktop systems, server software, and hardware upgrades.
- Configured and maintained Microsoft Exchange Server 2000 and Microsoft ISA Server, implementing content rules for Internet usage and monitoring.
- Developed and implemented Quote Development and Tracking program to support corporate sales force, utilizing VB.Net, ADO.Net and SQL Server 2000.
- Developed Custom Reports for Accounting and Production Support, interfacing with JobBoss Database.

2/03- 2/04 **Project Consultant**

Lifecycle Technologies, Inc.

JobBOSS Division, Exact Software Corporation, Edina, MN

- Performed fixes on JobBOSS software written in C++, Delphi, Access and SQL Server. Created archives for maintained software using Merant PVCS.
- Ported Data Collections modules from Microsoft Visual C++ to Delphi.

10/02- 2/05 **Project Consultant**

Hawkins Software and Design, Inc.

PowerSentry Division, Fiskars Corporation, Plymouth, MN

- Performed Analysis of all IT functions, including effectiveness quotients for Tech Support, Software Utilization, and system Stability.
- Developed and implemented Disaster Recovery and Continuity Plan
- Developed and implemented modifications to in-house shipping package using Visual Basic 6.0 and SQL Server 2000.
- Developed and implemented Global Products Database Monthly inventory and financial summation system, using JavaScript, SQL Server 2000, Microsoft Access, Microsoft Excel and MAS 200 Accounting Package.

- Designed, developed and implemented workflow applications to support Deviation Pricing Approval, using VBScript, Outlook, Collaborative Data Objects and Exchange Server 2000.

6/02- 11/02 Project Consultant, Project Manager

Hawkins Software and Design, Inc.

Filmtec Corporation, Dow Chemical, Edina, MN

- Designed, developed, and implemented 3-tier client server applications to support production of water filtrations systems, using Microsoft Visual Basic, COM, XML, SQL Server 2000, Microsoft Office Products, and Oracle RDB. Performed ETL functions, migrating data from Oracle RDB to Microsoft SQL Server, use Microsoft Data Transformation Services, to support
- Analyzed, advised and assisted implementation of software development processes and standards for Filmtec's development staff.
- Implemented Visual Souresafe for development management.
- Developed Automated Build Process using VBScript

1/02- 6/02 Project Consultant

New Horizon Consulting, Inc.

Minnesota State Supreme Court, St. Paul, MN

- Architected, designed, developed and implemented proof-of-concept "Automated Sentencing Assistant" for Minnesota Court System using Microsoft Visual Basic, COM, XML, SQL Server, Microsoft Access and Microsoft Office Products.

9/01- 01/02 Project Consultant

Perot Systems, Inc.

Lutheran Brotherhood, Minneapolis, MN

- Architected, designed, developed and implemented 3-tier client server tools for Mutual Fund Automation using Microsoft Visual C++ 6.0, COM, XML, Encina Servers, OS/390 CICS and the Trifolium Frameworks Class Library.
- Developed Intranet Document Management System for maintaining Requirements and Design Documents to support the Mutual Fund Automation Project, using JavaScript, ASP and Microsoft Internet Information Server.

11/00- 8/01 Project Consultant

Corporate Resources, Inc.

Varitronic Systems, Brooklyn Park, MN

- Designed, developed and implemented Template Management Tool using Visual Basic 6.0, Visual C++ 6.0, ASP, Microsoft IIS, ADO, COM, Access 2000 and SQL Server 7.0.
- Designed, developed and implemented BugBase issue log software front end, using Visual Basic 6.0, ADO, COM, ASP Microsoft IIS, Microsoft Access 2000.

12/00 – 3/01 Project Consultant

Hawkins Software and Design, Inc.

DigiBlaze Corporation, Saint Louis Park, MN

- Developed ActiveX modules for credit card processing and communication with financial clearing houses, using Visual C++ 6.0, Microsoft Foundation Classes, COM, HTTP, and FTP.

12/00 - 1/01 Project Consultant

Symbology Corporation, Maple Grove, MN

- Developed component for binhex compression of Windows and DOS-based files, using Visual C++ 6.0.

2/00 - 11/00 Project Consultant

Perot Systems, Minneapolis, MN

Lutheran Brotherhood, Inc.

- Supported Workflow Integration Project, using Staffware, Microsoft SQL Server 6.5 and 7.0, Visual Basic 6.0 and Visual C++ 6.0.
- Developed Intranet Reporting System using HTML, XML, ASP, Filenet, and Microsoft SQL Server 7.0.
- Designed, developed, and implemented Archive and Purge strategy for Workflow and Imaging support data.
- Managed data transformation project, creating automation scripts to extract data from several sources, including Filenet and DB2 tables, migrating the data to SQL Server to support various client server projects, utilizing Microsoft Data Transformation Services and JavaScript.

1/99 -2/00 Project Consultant

Novus Marketing, Minnetonka, MN

- Developed queuing system for enterprise-wide, 3-tier application set using Delphi 4.0, interfacing with SQL Server 7.0 and utilizing Microsoft Transaction Server.

6/98-1/99 Project Consultant

Carlson Companies, Minnetonka, MN

- Ported and developed accounting applications using Visual Basic 5.0 interfacing with Oracle Financials, Platinum Accounting and Great Plains Accounting software.
- Implemented PVCS for the Accounting support group and designed and implemented a change control system for the group.

11/97- 12/98 Project Consultant, SQL Server DBA

DST Systems, Kansas City, MO

- Ported 5 client/server mutual fund applications, using Visual C++ 4.2 and 5.0, Visual Basic 5.0, IBMAs Open Class Library, Rogue Wave Class Library and the Microsoft Foundation Class Library.
- Designed and developed Literature Request application using a 3-tier Client Server architecture, utilizing COM and DCOM, Visual C++, Visual Basic and the Microsoft Foundation Class Library.
- Assisted in contingency planning and disaster recovery for clients using the Market Advisor application with Btrieve databases.

- Wrote in-house application to convert Presentation Manager resource and dialog files to Windows resource files.
- Upgraded and maintained Intersolv Tracker Bug reporting software. Implemented and maintained Visual SourceSafe source code control software for 20 users.

11/95-11/97 Project Consultant, Build Manager, SQL Server DBA

MTS, Eden Prairie, MN

- Ported FlexTest IIm and TestStar IIs testing and control applications from OS/2 Presentation Manager to Windows NT using Visual C++ , Visual Basic 4.0 and 5.0, Borland C++ , Intersolv C++ Views and Allegris libraries.
- Developed and supported embedded C software for filtering a Digital Signal Processor, converting algorithms to code using Green Hill Optimizing C compiler and simulator.
- Designed and implemented install applications using Installshield version 3.0 and 5.0.
- Participated in Intersolv's Allegris Beta program.
- Implemented and administered Microsoft Visual SourceSafe and Intersolv Tracker bug reporting software for development group.
- Managed daily build process, using Hamilton CShell, and Rexx scripting languages.
- Implemented and administered SQL Server database, supporting three client server applications and over 50 users.
- Designed, developed and implemented Oliver Platform Group's Intranet Web Pages.
- Lead project to localize FlexTest IIm and TestStar IIs applications.

1/95 - 11/95 Project Consultant

Allianz Life, 1750 Hennepin Ave, Minneapolis, MN

- Developed insurance processing modules under OS/2 and Win-OS/2, using Borland C++, Cobol, Lotus Notes, VIP, Visual Basic, Access 2.0, DB2/2, ODBC and Datalens.
- Established and implemented priority upgrading of AS/400. Installed new security management procedures. Developed and maintained file transfer modules written in CL, RPG, and DB400.

11/94-1/95 Project Consultant

FlexMedics Corporation, 12400 Whitewater, Minnetonka, MN.

- Developed printing and data acquisition modules to support manufacturing automation. Developed applications under 16 bit Visual C++.

10/94-1/95 Project Consultant

Minnesota Educational Computer Corporation, Brooklyn Center, MN.

- Participated in development of Oregon Trail and Africa Trek educational games using Win32, Win16 and MacIntosh platforms. Retooled internal class library objects that use Windows API calls.

11/93-10/94 Project Consultant

National Computer Systems, Green Circle Drive, Minnetonka, MN.

- Participated in design and development of object oriented applications for psychological assessments for Windows 3.1, Windows 95 beta, Windows NT, using Visual C++ and Btrieve database product.

11/93-1/94 Project Consultant

Micro Control Company, 7956 Main Street NE., Minneapolis, MN.

- Participated in design and development of object oriented applications for testing equipment, using OS/2 Presentation Manager, Borland C++ , and ZApp.

11/93-1/94 Project Consultant

Clear With Computers, PO. Box 4459, Mankato, MN.

- Assisted with design and development of sales application using Microsoft Visual C++, Microsoft Foundation Classes(MFC) and Btrieve Database Product.

3/93-6/94 PC Specialist

Young America Corporation, 717 Faxon Rd, Young America, MN.

- Developed and managed collateral fulfillment system using Borland Pascal, Borland C++, Netware, Btrieve Database Product, Borland Paradox and Microsoft Access.
- Automated House Order system, saving 2 FTEs.

6/91-3/93 Director of Systems Development

Medical Data Insurance Processing, 5400 W 26th Street, Sioux Falls, SD.

- Responsible for the design, development and installation of various claims transaction systems utilizing Borland Pascal, C++, Assembler, Paradox, COBOL, JCL and OS/400 CL.

9/89-5/92 Programmer Analyst

Citibank SD NA, 701 East 60th Street North, Sioux Falls, SD.

- Designed and developed application systems on IBM 3090, AS/400 and PCs utilizing Cobol, JCL, OS/400 CL, CICS, Adabas, DB2 and DB/400.
- Designed, developed and implemented Credit Bureau Report Retrieval system, eliminating 4 FTEs.

References are available on request.