

Objective: A challenging position using technology that may include:

- Team and project management.
- Architecture, design, development and implementation of web services and data warehouse applications.
- Simulation and embedded software programming.

Education: Bachelor of Science Degree in Computer Science, Calvin College 1997

Experience: I have over 10 years of professional commercial software development predominately in .Net (C#, Visual Basic, ASP) and C++ with experience from product inception to rollout. All my experience is detailed at: <http://www.bierling.net/pages/projects/projects.htm>

CU*Answers
TEKsystems
CUAnswers.com
TEKsystems.com

ASP.NET Applications Web Developer contracting for CU*Answers on ItsMe247.com for credit unions nationwide. (2010 – Present)

- Worked on product development of the Online Banking platform that serves over 2 million visits a month from Credit Union members. Developed integration modules with core processing mainframes and many 3rd party vendors. Business logic was contained in a domain model influenced by Domain Driven Design. Mobile banking integration utilized MVC presentation layers and WCF services supporting mobile applications.

Lead Pursuit
Lead-Pursuit.com

Executive Producer, Lead Developer, co-founder, and part owner of Lead Pursuit. Lead Pursuit has developed the award winning Falcon 4.0 Allied Force based on the legendary Falcon 4.0 F-16 combat flight simulator. (2008 – 2010)

- Managed and provided leadership to a team of 18 developers setting individual goals and priorities. Defined project objectives and schedules.
- Managed an executive team setting strategic direction.
- Developed key aspects of software (Visual Studio and C++) including aviation and avionics systems, artificial intelligence and network and bandwidth management (peer to peer and client server modes). Developed the communication and integration layer between the graphics (C# .Net) and simulation (C++) engines. Worked with the client front end graphics toolset (C# .Net) to develop the 3D world. Optimized and debugged software using Intel VTune, Rational Purify and other memory validation tools. Extensively involved with toolset, Windows Win32 API and SDK integration.
- F4Patch (C++) Programmed and designed the F4Patch modification system for Falcon4. Estimated user base around 50,000 users.

Abante Systems
Abante.com
MITracker.us

Lead Programmer, co-founder and minority owner of Abante Systems. Abante Systems is a software development company specializing in educational software used throughout the United States. (1997 – 2008)

- Designed, developed, and managed Abante's development team for its main products, MITracker (C# .Net web service, IIS, SQL Server data warehouse) and Progression (C++, VB, OLE DB, dBase, SQL Server and any other relational database). MITracker provides easy access to standardized testing results over the web using Business Intelligence class solutions (B2B) to improve education. Progression is curriculum management software that tracks student grades and progress. Crystal Reports, Crystal Enterprise and Business Objects generated the reports using stored procedures.
- Responsible for the development of ETL system for MEAP and local assessment data.
- Worked with the State of Michigan Department of Education designing and developing the Education YES! web site (Linux, C++, Apache, FastCGI, PostgreSQL). Over 4000 schools throughout the State of Michigan used the website to submit self-assessment data. Over 4000 schools throughout the State of Michigan used the web site to submit self-assessment data.
- MEAP Assistant (C++) - Worked with the local county school district developing

- software that reports on student MEAP results.
- Progression for the Web (C++, ISAPI, IIS, ASP, Apache, JavaScript) - Curriculum and student grade management software.
- Progression MacOS - Curriculum management software (Metrowerks CodeWarrior C++).
- Administered, maintained and supported SQL Server database high performance server farm with replication, clustering and automated backup.

Phoenix Data Systems

PhoenixDataSystems.com

PanoReality.com

- Part time co-founder and co-owner of Phoenix Data Systems. Phoenix Data Systems provides consulting, photography, and software services to publishing companies worldwide. (1995 – Present)
- Created PanoReality Explorer, a multimedia virtual tour program that is fully interactive and provides a full 360-degree field of view. Windows Version (C# .Net WinForms, VB6, OpenGL) and for the Web (JavaScript). Sold internationally (US, Canada, Jordan).
 - Developed Image Database (C#, VB6), a program that stores an archive of 20,000+ photographs for licensing of various sites in the Middle East. Its online database uses Apache, PostgreSQL, and PHP for easily accessible searches. Uses EXIF and IPTC metadata.
 - Image Database Online - A Database that keeps track of the image archive of around 20,000 images and videos. Search on the web! First written using Java then rewritten for IIS and Active Server Pages (ASP). Also rewritten to use Apache, PostgreSQL, and PHP.
 - PanoReality Builder (C#, VB6) - A program that constructs the information that PanoReality Explorer uses to present its information.
 - PanoReality.com (JavaScript, CSS, HTML) - Designed and developed website for 360 degree photography virtual tour spinoff.
 - AJVinc.com (JavaScript, CSS, HTML) - Designed/developed website for architectural firm AJV Inc.

Ford Motor Company

Ford.com

North American End User Support, Process Leadership. Worked with the Global Incident Reporting System (GIRS) developing WWW applications and support. (1996)

Greiner Inc

URSGreiner.com

- Applications programmer (Visual Basic). Greiner is an international architectural firm specializing in airport and school building design. (1995 –1996)
- Detail Manager (VB DOS) - A database to keep track of AutoCAD details.
 - Plot Description Manager (VBDOS) – Enables writing project descriptions.
 - Floating Notes (VB DOS) - A major limitation of Lotus Notes was that it only allowed for one user. This program creates a login for Lotus Notes so multiple people can use the same computer and same installation of Lotus Notes.
 - Many VB DOS programs dealing with the AutoCAD plotting system.

Languages and Programming Environments

Microsoft Visual Studio including C/C++ (15+ yr) with Microsoft Foundation Classes (MFC) and Win32 API (15+ yr), C#/.Net (5+ yr) and Visual Basic (20+ yr). SQL (15+ yr) (SQL Server, Oracle, MySQL, PostgreSQL). Metrowerks CodeWarrior with PowerPlant (1 yr) Java (1 yr), JavaScript (10+ yr) HTML (15+ yr), XML (5+ yr), CSS (5+ yr), Perl (1 yr), ASP (5+ yr), AJAX, PHP (1 yr), QuickBasic (5+ yr), Fortran 90 (6 mo), Modula II (1 yr), COBOL (6 mo), Sparc and x86 Assembly (6 mo). Extensive experience with CVS and SVN. Used Intel VTune and Rational Purify.

Operating Systems

MS DOS, all versions of MS Windows, Mac OS, Mac OSX, XWindow, Linux, Solaris.

Networking Protocols

TCP/IP and UDP

Applications

Microsoft Project, Office, Excel, Access, Visio, Adobe Photoshop (15+ yr), Joomla CMS, Dreamweaver, Sony Vegas, VMWare, Crystal Reports, Crystal Ent. & Business Objects.