

# William C. Eberle

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## Database, Software & Internet Development Experience

### *Principal Architect, Chief Developer*

**Internet Applications:** **ME FIRST** – intranet database application and online reporting for wellness program improving health for State of Maine employees with identified health risks – Microsoft SQL Server 2005 and .Net. **www.NBA.com** – NBA/WNBA **original Courtside Live web browser application**, live game scores, play-by-play, player statistics (15 sorting columns, 3 sliding pages), and player efficiency – *Javascript, Flash™ MX ActionScript* objects and methods, *XML*. **www.CosmicEncounter.com** – 1. **interactive membership pages, affiliate linking & tracking systems, promotional and player ranking applications** – *Flash™ MX ActionScript, Perl, MySQL™*; 2. **game data processing** – *Perl, DBI & SQL, mod\_perl, XML, MySQL™, and Java™*; 3. **XML web “resource text”** – *Microsoft Access®, MySQL™, SQL, XML, Flash™MX ActionScript*; 4. **game interaction formula logic** – *Perl, mod\_perl, Java™*; 5. **“Game AI”** computer opponents – *Java™* objects and logic. **www.icsic.com** – **automated insurance XML data translation** – *XML, Perl/DBI SQL, MySQL™*. **Data Schemas & Relational Databases:** Augusta Maine **ME FIRST Program (MaineGeneral/Maine Workers Comp)** – program management and assessment database; MaineGeneral EMR reporting database and snapshot data tables. **Association of Children's Museums** – **good to grow! content development database** and **good to grow! family web activity management and research database** – Microsoft Access® (moved to SQL Server for web database). Tampa Florida **Museum of Science & Industry (MOSI)** – **WeatherQuest! content development database and application XML** – *Microsoft Access® and Perl*. **www.NBA.com** – **nested delimited data sets** (low bandwidth) for *Courtside Live*. **www.CosmicEncounter.com** – **design/ resource management database** – *Microsoft Access®*; **membership management, affiliate linking, game session and player ranking management** – *MySQL™ Flash™ MX, Perl*. **Platform Shoes' Zoey's Room** database design/migration. **www.MarinePartsExpress.com** – **marine engine repair and parts online database, online repair parts buying system** – *Microsoft Access®/ MySQL™, Perl*. **Business in China web site** – **document/category content management databases** – *Microsoft Access®, Delphi™, MySQL™, Perl*.

### *Key Contributor*

**Internet, Educational Entertainment & Computer Applications:** **ME FIRST Program (MaineGeneral/Maine Workers Comp)** – scheduling & assessment application design – *Microsoft Powerpoint®*. **Association of Children's Museums good to grow! family educational web activity** – **concept development, consulting,** and **SQL** to guide content and web site developers, Tampa Florida **Museum of Science & Technology Weather Quest interactive educational game application** (for class rooms visiting the museum) – **concept development, consulting;** **www.CosmicEncounter.com multi-player online game server and client** – *Java™, Flash™ MX*. **www.MarinePartsExpress.com, marine online repair part buying system,** and **commercial business information web site** (no longer online) – **computer & web content management and computer to web data transfer applications** – *Delphi™, Microsoft Access®, MySQL™*; also **consulting** for web application design. Maine Legislature, **legislative bill processing and legislature application data schemas** (migration redesigns) – *SDesigner*. For **Syτος Plus** tape backup software – **tape driver module and development kit** – C.

### *Management & Leadership Positions*

**Partner, CEO** – Maine Quality Information Partners, Inc.; **Partner, CTO** – Future Pastimes, LLC; **Director/Officer** – Eon Products, Inc.; **Vice- President** – R&B Partners; **Senior Programmer/Analyst** – Maine State Legislature; **Team Leader, Manager** of external driver development projects – Sytron Corporation; **Volunteer Teacher/Mentor** Bolduc Correctional Facility.

### *Other Relevant Experience*

**Digital Photography, Graphic Layout & Design:** photos, photo montage, and photographic prints for *wceDesign*; logo, posters and event cards for Collective Freedance. **Product Design:** game design for *Future Pastimes, wceDesign, Eon Products*. **Writing/Editing:** game rules, box print, ad copy, web content for *Future Pastimes, Eon Products, Eon Software*; ad copy, sales, web content for *R&B Partners*; web content and automation for *Maine Legislature and Maine Attorney General*.

**Other Experience (cont.)** **Technical Writing:** major contributor, Maine Legislature Migration Project RFP, wrote Remote Bill Status Access installation guide for *Maine Legislature*; wrote Driver Development Kit documentation for *Sytron Corporation*. **Tested and edited** documentation and computer based training products, and QA'd products for *Wang Laboratories*.

**Languages, Relational & Hierarchical Data, Tools, etc.** **Languages:** SQL, T-SQL, Macromedia® Flash™ MX ActionScript, Java™, Perl, Perl CGI & DBI, mod\_perl, Delphi™ (Object Pascal), Python, Javascript, C, C++, Visual Basic® & Visual Basic for Applications®, Forth, Assembly, COBOL, etc. **Relational Database:** Microsoft SQL Server® 2000/2005 Management Studio, Microsoft SQL Server® 2005 Business Intelligence Development Studio and Reporting Services, Datanamic Solutions DeZign for Databases, Microsoft Access®, MySQL™, Interbase®, Paradox®, Wang PACE. **Hierarchical Data:** HTML, XML, delimited text. **Operating Sys:** Micro – Microsoft Windows® (XP, NT, etc.), Unix, Linux, Sun Unix; Mini – Wang VS. **Graphic Layout and Art Software:** Adobe Photoshop, Adobe Acrobat, etc.

## Professional Experience

### Maine Quality Information Partners, Inc.

Partner, CEO

November 2008 – present

#### *Maine QIP Accomplishments:*

Maine Quality Information Partners is a recently established Maine corporation formed to provide quality information analysis and reporting to health care organizations and professionals. Our goal is to help health care professionals maintain and use electronic medical records and clinical reports to improve their practice of health care.

In November 2008, Maine QIP was asked to organize and manage development of a web database application for the ME FIRST Program, a special initiative by Maine Worker's Comp and MaineGeneral Health to improve the health of selected State of Maine employees with identified health risks by focusing on improving personal exercise and diet and offering exercise and health coaching and support. The ME FIRST web application and a related report server have been deployed and are being used by ME FIRST staff. On May 22, we deployed version 1.02 which added inter-staff messaging and message management.

Currently, Maine QIP provides information analysis and clinical and management reporting for Maine General primary care practices under a contract between Maine QIP and Maine General Health, Augusta Maine.

### *wceDesign*

2000 – present

**sole proprietor,  
database architect/database application developer,  
software and internet application developer,  
photographer, web site developer**

#### *wceDesign Accomplishments:*

For Maine General Health provided information analysis, T-SQL design and development, and medical and clinical information analysis and reporting for the MaineGeneral Health EMR in Augusta Maine. Projects included creating systems for automating daily creation of tables ranking patient clinician and patient practice relationships, reporting about Maine General EMR patients on medications with FDA MedWatch alerts, assessment of overdue EMR open tasks by category, EMR patient hypertension comparisons, resident somatic dysfunction assessments, EMR unended acute medications, practice and clinician patient lists, practice and clinician patient lists problem registry lists, etc.

For Eon Products, Inc. and Future Pastimes (now Future Pastimes, LLC.) provide ongoing design, business, and technical consulting, and created MySQL™ database and customized Perl programs for original online surveys, and subscriber management systems. Provided consulting, new database design and database conversion (Microsoft Access® to MySQL™) for Platform Shoes Zoey's Room educational application. Created original HTML and CSS web site for Bulldog Motorcycles and provided photos and programming for Flash MX web site for InnerStillnessRetreats.com (now instilljs.com). For icsolutions, inc. (www.icsic.com) created automated XML to SQL data module for insurance application using Perl CGI/DBI and MySQL™. For Tom Stevenson (hostmaine.com), Asian Initiative, Inc., Sandy Damachek, and CP()Web Media/Targetect provided database design, game design, business, and technical consulting services. With proprietor/web site designer Tom Stevenson, conceived and implemented several "data driven" web sites to allow web site businesses to update web site information using Windows® database applications. Designed and implemented small (< 50 table) and medium sized (> 50 table) databases using Microsoft Access® (Windows® 98, Windows XP®) and MySQL™ (Unix web server); provided SQL

queries used by web site programs; also, provided project management, programming, and validation testing for Windows® database applications used by these web sites. For Maine Attorney General's Consumer Information and Mediation Service office, completed design and prototype implementation of a web document application for the Maine Attorney General's Consumer Law Guide including web page and web page automation designs, Microsoft Word® Visual Basic® modules, Word® styles, templates, document formatting, and HTML Transit® "scripts" to convert Law Guide chapter text, references, and footnotes into appropriately organized web pages with HTML links and JavaScript automated popup windows. Also, organized document migration project (Macintosh Adobe PageMaker to Windows® Microsoft Word®).

### **Future Pastimes, LLC.**

2001 – present

**partner, chief technology officer,  
principal game designer, database architect & dba,  
chief interactive website developer,  
game application developer**

#### *Future Pastimes Accomplishments:*

**Museum Educational Application technical consulting** – 1. Created content development database application for the Association of Children's Museums good to grow! web site and also designed the goodtogrow.org good to grow! family web activity management and research online database. 2. Provided content development database application and automated XML creation for Tampa Florida Museum of Science & Industry WeatherQuest application. Query output from the content development database were processed by Perl scripts to create XML files which allowed controlled updatable content for WeatherQuest!, a NSF funded Flash™ interactive educational application for a large room simulation of interactive weather disaster information systems for students who assumed roles of weather scientists, news reporters, and TV producers working together to produce live TV shows.

**Web Applications** – 1. Consulting and databases for Association of Children's Museums (see above). 2. Consulting and application development for www.NBA.com – Courtside Live (Flash™ MX application) project – chief client-side (web browser) application architect and developer, including all major ActionScript objects including XML override methods and read, parse, and object store methods for box score statistics, live play by play, and efficiency; main movie timing and data flow methods; logic and code for "bottom line" score/time display and game chooser; objects and methods for player box score, efficiency statistics, statistics columns with sort by column heading feature, etc. 3. For Cosmic Encounter® Online, www.CosmicEncounter.com created multi-player game design and resource management database application; web client membership, affiliate, email promotion, and player ranking applications – all interactive web client Flash™ MX ActionScript programming and web server Perl and SQL programming; all database design and database management; major contributor to internet, multi-player game application programming, in Flash™ MX ActionScript, Perl, mod\_perl, SQL, XML, and Java, including a dynamic web "resource text" system, all game application data processing logic for game session/player ranking management, player interaction game formula resolution, and all "AI" (computer opponent) programming; ongoing design, development, programming, and technical and business consulting as part of Future Pastimes, LLC.

- The award winning Cosmic Encounter® board game was republished by Avalon Hill/Hasbro International in 2001 and by Fantasy Flight Games in November 2008, in English and additional languages for world-wide distribution.

### **Midcoast Mental Health Center**

November 2003 – January 2008

**Mental Health Care Worker  
Certificates: MHRT-1, CRMA  
MANDT, Standard First Aid, CPR Adult**

#### *MCMHC Accomplishments:*

In a MCMHC residential setting I provided living skills training, mentoring, and care, as well as medication, chart and documentation management, and monitored and guided physical and mental health to ensure the safety, security, and well being of MCMHC residents. The last comment in my most recent employee evaluation said, "Bill is an outstanding employee, trusted by those in his care and respected by his co-workers. I believe his dedication and enthusiasm are making a difference in our residents' lives."

### **R&B Partners, Inc.**

May 1996 – December 1999

**partner, database architect,  
database application developer,  
desktop application developer, web site developer**

#### *R&B Partners Accomplishments:*

Programmed prototypes and first working versions of Estimator Partners™ Windows® construction estimating application. Designed user interface and supervised development of database, user interface, and security and web connection components for Estimator Partners™ program. Served as a R&B Partners, Inc. principal, business strategy planner, and sales rep. New company name for R&B Partners, Inc. is Builder Partners, LLC; web site: www.bldrpartners.com.

**Maine Legislature Information Systems****senior programmer analyst**

Nov. 1992 – Oct. 1998

*Maine Legislature Accomplishments:*

Lead for technical research and vendor assessment for Y2K project. Working with large scale project consultant and Legislative process expert, provided technical analysis and technical leadership for research and planning phases of Wang VS to client server migration project for all of the Legislature's data and legislative process management applications. Provided HTML, SQL procedures, Microsoft Indexer hooks and other technical support for original project which moved the Maine Statutes from Wang VS applications to Maine Legislature web pages. Automated translation and transfer of weekly legislative status reports to state's high speed Xerox printer queues. Completed Microsoft Access® data conversion projects. Also, responsible for modem hardware, software, and connection related technical support to legislators and public for pre-web online Bill Status system; completed address and mailing label database with related output and conversion programs written in COBOL, and provided on-going software/hardware support for non-partisan and partisan staff and legislators.

**Sytron Corporation****senior software engineer,**

Nov. 1988 – May 1992

**manager of external driver development,  
engineering team leader***Sytron Accomplishments:*

For second generation product, led engineering group responsible for major software modules, QIC and DAT tape backup device drivers, and Sytron software configuration and build management tools. Also managed external device driver development program, and designed and coded software modules and software module development kit used for in-house and external device driver development, test and debugging. Major OEM customers included IBM, Microsoft, Compaq, Hewlett-Packard, NCR, Siemens-Nixddorf, Inc., AT&T, Adaptec, DEC, Intel, 3M, Tandberg, TEAC America, Wangtek and Tecmar.

Completed research and product proposals for third generation, network product. Designed and developed test tools for both a traditional call based program test environment and helped design and develop an event driven, network simulation test environment using software threads, message handling, semaphores, etc.

**Wang Laboratories****software engineer, quality assurance engineer**

Dec. 1985 – Nov. 1988

*Wang Accomplishments:*

Managed PC LAN QA test environment; designed and developed QA test tool for validating translation modules for an electronic publishing product; planned and developed QA tests and tested products including Wang multi-user products for office process automation, software word processing administration, and computer-based training, products, and electronic publishing, graphical user interface, and network projects.

**Future Pastimes, Eon Products,  
Inc., Eon Software, Inc.****web and software product designer, game designer,  
technical consultant, writer, editor, model maker,  
graphic and computer graphics designer**1983 – 1985, part-time 1973 – 1982,  
and 1985 – present*Future Pastimes and Eon Accomplishments:*

Over 30 years of game and education product design experience; co-designer of over 40 published entertainment and educational products and applications. Designed educational computer games under contract between Eon Products and the Children's Television Workshop in 1983 and 1984. Served as President of Eon Software, Inc. and Vice President of Eon Products, Inc.

*Other relevant professional experience:*

**Vista volunteer**, Chicago and Sparta IL.

**Writer**, Department of Interior, Bureau of Land Management.

**Teacher, team teacher**, Urban Teacher Corps, 7th and 9th grade English, Washington, D. C.

**Reporter**, *The Standard-Times*, New Bedford, MA.

**Director**, South End Neighborhood Center Onboard, Inc., New Bedford, MA.

**Educational Director**, Department of Labor pilot project for high school dropouts (Learning To Learn).

**Teacher**, high school English and History, Dartmouth MA.

**Counselor, Educational Internship Program Coordinator**, Dynamy, Inc. in Worcester MA.

**Volunteer**, Maine State Prison's Bolduc facility database and Windows® programming teacher/mentor (using Microsoft Access®, MySQL™, Macromedia Flash™ MX, Java™, Delphi™, Microsoft C++, and Microsoft Visual Basic® for Applications) from 1997 – 2004 and in 2009.

**Education**

**BA English**, Hamilton College, minors in Art and French.

**Industrial Form** under-graduate course, Syracuse University.

**Urban Teachers Corps Teacher Training**, Washington D. C.

**Adult Outward Bound** course as part of counselor training for Dynamy, Inc., Worcester MA.

**Wang Laboratories** courses in Project Management, VS Architecture II, Unix System Overview, C Language, Data Structures in C, VS Virtual Machine, Human Factors in User Interface Design.

**SUN Microsystems** courses in SUN System Administration and SUN Unix for Programmers.

**Sytron experience** in software design methodology, backup device hardware and software, including Quarter Inch Cartridge tape standards (QIC-02/150/525), DDS DAT device interface, and SCSI I/II.

**Effective Group Work** graduate course, University of Maine, Orono.

**Maine Legislature** courses and experience in database design, large scale project analysis, Microsoft Access, Delphi™ Windows® programming, Microsoft SQL Server, and HTML.

**In Addition:** game and simulation design, database design, XML information design, SQL, T-SQL, Perl, Perl CGI and DBI, mod\_perl, Macromedia® Flash™ MX and Flash™ MX ActionScript, Java™, Delphi™ Object Pascal, MySQL™, HTML, XML, JavaScript, Python, MS Access®, Microsoft Word®, Visual Basic®, C, Forth, Assembly, COBOL, C++, Lisp, ARexx, and OPS5 programming languages; Microsoft Windows® and DOS, and Linux/Unix operating systems.