Brian Beinlich
Portland, Oregon
BrianBeinlich.com

QUALIFICATIONS

- **Over 40 years of experience** in software development in numerous environments.
- **Platforms:** Windows, Unix/Linux, mainframes, and others.
- **Languages:** HTML, CSS, JavaScript, SQL, PHP, ASP, ASP.NET, Java, C/C++, Perl, Unix shells, Win32, Fortran, COBOL, assembler, and many lesser-known languages.
- **Software design process:** requirements analysis, user interfaces, structured and object-oriented design, databases, QA, documentation.
- **Creative tools:** Adobe CS6 suite: Photoshop. Audition, and Premiere Pro. Microsoft Office suite.
- Excellent verbal and written skills. Strong attention to detail. Disciplined, organized, and results-oriented.
- Hardware design knowledge. Experienced with electronic hardware design automation (CAE) tools and processes.

EMPLOYMENT HISTORY

2014-present (part time): Bioinformatics java programmer, Proteome Software, Portland, OR

Resolved programming defects and made UI enhancements to the company's Java-based proteomics analysis applications. Performed software functional testing. Architected an automated testing system.

2005-2009, 2011-present: Contract software engineer, Airbase1.com, Crawford, CO

Webmaster for The Airport Guide. Design, development, and maintenance of numerous other web sites using HTML, CSS, JavaScript, jQuery/UI, PHP, MySQL, ASP, ASP.NET, SQL Server, and VB technologies. Applied custom changes to Cartweaver and a proprietary E-commerce system. Implemented SOAP and proprietary APIs. Integrated FedEx, USPS, UPS, PayPal, and other APIs. Developed creative methods for diagnosing errors in server-side code without disrupting live web sites.

2002-present: Self-employed software engineer

Freelance web site designer focused on PHP, JavaScript, jQuery, CSS, responsive design, and MySQL technologies. Custom themes and modules for WordPress and Joomla! sites. Portfolio available at BrianBeinlich.com.

1998-2002: Senior Software Engineer, STEP Technology, Portland, OR

Performed project management, requirements analysis, web site design, QA, and final project documentation. Projects used Microsoft technology, including ASP, XML, XSL, XSLT, SQL Server, and COM. Sites included PrintBid.com, 800.com, and Danner Shoes.

Developer for FoolProof Security's SmartStuff, a Windows-based PC security package.

1992-1998: Staff Software Engineer, Intel Enterprise Server Group, Beaverton, OR

CAE engineer for the Eagle and Kestrel boards and the NIC and MRC ASICs used in the DARPA TeraFlops project. Designed, wrote, documented, and supported software to assist with design capture, simulation, schematic comparison, and design verification using Mentor Graphics, Model Technology, and other systems. Pioneered the use of internal web sites for distributing software, best practices, and design documentation.

Led a 9-member CAE support group that created a Mentor Graphics design environment for a 35-person ASIC design team, then broadened the group's charter to include PCB design support. Developed support plans, goals, metrics, and standards. Created and documented design methods and system administration procedures. Automated routine tasks using C, csh, and Perl.

Emergency Response Team (ERT) leader. Pioneered the use of internal web sites for all ERTs in Oregon.

1991-1992: Senior Software Engineer, Bipolar Integrated Technology (BIT), Inc., Beaverton, OR

Maintained BIT's ECL Standard Cell library of more than 750 cells. Used a relational database to automate data sheet production. Enhanced Unix-based automated simulation and cell-checking systems. Documented standards and methods. Supervised one employee.

1985-1991: Principal Engineer, Codex Corp. (Motorola, Inc.) VLSI Design Center, Tempe, AZ

CAE software engineer for the VLSI Design Center. Used C and Fortran to develop methods and tools for design management, modeling, simulation, schematic entry, physical layout, verification, and documentation of ICs. Developed a proprietary framework to integrate CAE software from several vendors. Developed test vector, data path, layout, and schematic generators. Wrote a workstation-to-mainframe data communication system that included remote job execution, e-mail, and file/directory transfer which was distributed to 14 sites worldwide. Converted Fortran software libraries to C.

1975-1985: Principal Staff Engineer, Motorola, Inc., Semiconductor Products Sector, Mesa, AZ

Co-founded a corporate-wide effort to encourage standardization, cooperation, and re-use among design groups. Designed a CAE system based on Apollo hardware and Mentor Graphics software. Formulated design standards and contributed production-quality documented software for worldwide distribution.

Developed CAE software in Fortran for the IC Applications Research Lab, including a layout design rule checker, graphics format converter, layout generators, and a mask data preparation system. Wrote control software and debugged hardware for the 1980 Ford electronic engine control system. Specified and implemented microprocessor cross-assemblers, simulators, and debuggers that ran on several platforms. Developed layout applications using Calma GDS and GDSII graphics systems.

EDUCATION

- Programming in Visual Basic .NET, November 2001.
- Introduction to ASP.NET, November 2001.
- Mastering Web Site Application Development Using Microsoft Visual InterDev, November 1998.
- Implementing a Database Design on Microsoft SQL Server, 1998.
- Various technical and management courses, 1975-1998.
- Bachelor of Science in Electrical Engineering, Arizona State University, 1975.

AUDIO ENGINEERING

- Over 40 years of experience in live audio mixing and engineering.
- 2014-2016: Live sound engineer for many shows at Tony Starlight's and Mazza's dinner and music clubs.
- 1998-2016: Live sound engineer, Fez Fatale, Portland, OR.
- 1979-1982: Officer and audio engineer, Southwest Production Services, Tempe, AZ. Supplied sound systems and crew for Compton Terrace and the Mesa Amphitheatre.
- 1975-1979: House audio engineer, Celebrity Theatre, Phoenix, AZ.

COMMUNITY SERVICE

- 2011-2015: Board member and webmaster, Helvetia Community Association.
- 2010-present: Treasurer and webmaster, Washington County Citizen Action Network.
- 2010: Team member and webmaster, Greg Mecklem for County Commission.
- 2009-present: Co-founder, Steering Committee member, Board member, and webmaster, Save Helvetia.
- 2009-2010: Treasurer and webmaster, North Plains Junior Baseball Association.
- 2009: Harold M. Haynes Citizen Involvement Award recipient (Washington County, Oregon).
- 2001-2004: Board member, Alternatives To Growth Oregon (AGO).
- 2000-present: Treasurer and webmaster, Oregon Communities for a Voice in Annexations (OCVA).
- 1995-2000: Vice Chair, Citizen Participation Organization 8 (CPO 8), North Plains, OR.