

## Eric Braun

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Senior level software professional and hands-on engineering group leader with a 20+ year proven track record of driving projects to success. A unique blend of technical acumen and people-oriented team leadership, able to cultivate high performing teams. A big-picture thinker who can align risk/reward and cost/benefit analysis of implementations with business objectives.

### SKILLS SYNOPSIS

- Takes initiative to find and solve problems.
- Outstanding diagnostic and debugging instincts and capabilities.
- Highly versatile with the ability to think strategically and tactically.
- Tenaciously gets things done well and on-time. Efficiently manages competing priorities. Strong work ethic.
- In-depth knowledge of full life-cycle application development.
- Project planning and management, technical team leadership and mentoring.
- Cross-functional project coordination across on-shore and off-shore teams.
- Building cohesive, creative, motivated teams to innovate and design best-fit solutions.
- Skillful at leading designs close to the hardware all the way to the system/application level.
- 20+ years experience managing a successful software consultancy with hiring and profit & loss responsibility.
- Systems and API architecture and design, data modeling, database design, web and multi-tier design, UI/UX.

### PROFESSIONAL EXPERIENCE

2014 –  
Present  
(continued  
from 2008  
with  
Echelon)

#### **Networked Energy Services** (formerly Echelon Corporation) - *San Jose, California*

##### **Engineering Manager, Manufacturing Systems – reporting to the CTO**

##### **Senior Software Architect**

- Led key production automation initiatives that resulted in optimizing product release processes, reducing process costs by 60% and potential errors by 80%.
- Designed the test and data strategy, software architecture, and managed the team implementing NES's next generation high-volume manufacturing test systems line and test software framework, including mechanical fixtures, hardware, software, effort sizing, costing, external contractors, and a \$750,000+ CAPEX budget. Managed off-shore (China, Poland) and on-shore (San Jose) teams.
- Worked with the CTO to design strategic initiatives for improving production quality.
- Repurposed equipment and optimized efficiencies resulting in \$100,000 of savings against budget.
- Greatly improved software implementation standards, modularity, maintainability, and efficiencies over previous generation line.
- Managed production test systems deployment at the tier-1 contract equipment manufacturer.
- Worked with ODMs to integrate their product test systems and methodologies into our test line.
- Coordinated cross-functionally across several groups.
- Wrote production-quality software using .NET/C#, National Instruments TestStand, LabWindows/CVI, Python. Agile / Scrum development methodology, JIRA, Perforce.

2008 - 2014

#### **Echelon Corporation** - *San Jose, California*

##### **Senior Software Engineer, Group Technical Lead**

- Substantially improved Echelon's order processing efficiency. Reduced configuration time from 4 months to a matter of hours with greatly reduced production errors. Acted as architectural, engineering and management lead to develop *the smart-meter industry's first web-based expert product configuration system*. This system takes customer and company-internal inputs on a per order basis, validates complex configuration programs, and generates product configuration files used in manufacturing and first-article validation programs. Coordinated across multiple functional groups including off-shore testing. Agile / Scrum development methodology. UI design, ASP.NET, ADO.NET, C#, T-SQL, Javascript, AJAX, CSS, HTML, Web Services.
- Received Echelon's first "CEO's Innovation Award" (including stock grant) for creating the above system.

1989 - 2010

- Developed mission-critical, high-volume manufacturing test and configuration libraries that handle product device-specific operations including loading and configuring embedded Linux firmware. Wrote requirements and functional specification documents. Coordinated across product hardware and software engineering groups to optimize functions for use by manufacturing test. Test engineers integrated these C#/.NET libraries into National Instruments TestStand sequence scripts to run on the manufacturing line.
- Architected and implemented a next-generation manufacturing test framework in .NET/C# GUI that allows for rapid integration of test cases and reliable execution in a high-volume manufacturing environment. Resulted in reducing the cost of developing and maintaining new test systems.
- Developed four simultaneous manufacturing test systems based on the above framework, to load firmware into ARM processors via JTAG programmer, diagnose and configure product PCBAs. Developed a communication protocol in C for use between test software and embedded test controllers.
- Created two First Article analyzers - .NET/C# GUI desktop applications that automated the process of analyzing 4,000+ parameters of pre-production smart meters used by manufacturing engineers and system test engineers. Resulted in 70% process cost reduction and increased production accuracy.
- Sustained legacy manufacturing test systems written in C++/MFC.

### **Founder & President**

#### **Applied Wisdom Corp.** - *Scotts Valley, California*

Applied Wisdom ([www.appliedwisdom.com](http://www.appliedwisdom.com)) provided software systems design consulting, technology assessment, and educational services. Had full hiring and profit & loss responsibility.

- **Lead Architect/Programmer, Project Manager** (since 1998) for corporate-wide training & development and certification web applications and Windows desktop electronic billing applications for the legal department of [McKesson](#) (Fortune 35 company). Built McKesson's first corporate-wide web-based training system. Designed and implemented applications using HTML, Javascript, Perl & PHP CGI, Microsoft SQL Server, Microsoft Access, Microsoft Active Server Pages (ASP.NET), Microsoft Active Data Objects (ADO.NET), Microsoft Visual Studio .NET, C#, CSS, Visual Basic, secure digital certificates, and asymmetric encryption (GPG).
- **Senior Software Engineer** for ZMeters, Inc. (2006-2007) as a core member of a team that designed and built a Win Forms GUI application in C# and .NET using Syncfusion controls for diagramming, displaying data in grids and charts, and communicating via Bluetooth to a hardware meter for a power distribution analysis system. Was a key contributor to the implementation, design, and decisions, and instrumental in taking the project from start to initial product completion. Developed test code for TestComplete.
- **Project Manager, Software Engineer** for Pandora Data Systems (2005-2006), for a 2<sup>nd</sup> generation hospital drug dispersion and diversion reporting application. Managed a team of four programmers, three test technicians and coordinated with the sales and marketing team. Led a stalled development effort and successfully brought the product to market. Developed user interface code using Visual Studio, C# and Infragistics controls. Developed T-SQL code for the SQL Server side of the application including database version conversion scripts. Developed a Flash-based front-end selector that launched a combination of installers depending on the user's needs.
- **Other clients included** Thomson Healthcare - Medical Economics, Corning-Metpath, Dun & Bradstreet, United States Department of Labor.

### **OTHER RELEVANT EXPERIENCE**

#### **Co-founder, President, Chief Technology Officer**

##### **[JITSR.com](#) – Just-In-Time-Stress-Relief** - *Scotts Valley, California*

JITSR is a highly-scalable web and mobile-based stress management training system based on methodology validated at the Stanford University School of Medicine and popularized by JITSR co-founder, Fred Luskin, Ph.D., through his book *Stress Free for Good* (Harper San Francisco, 2005). I conceptualized this product and put together a core management team. As chief technologist, I designed and wrote the software based on ASP.NET, ADO.NET, C#, Syncfusion controls, HTML, XML, AJAX, Web Services, CSS, Javascript, Flash, T-SQL, and stored procedures. JITSR was used in a research project with 200 students at Stanford University and is now used by high school students nationally.

1997 - 2008

## PROFESSIONAL INSTRUCTOR EXPERIENCE

**University of California at Berkeley – Instructor, Engineering Extension School**

**Stanford University - Lecturer of Technology, Stanford Continuing Studies Program**

**Corporations such as EMC, Adaptec, Network Appliance, Bain Consulting, and various law firms**

- Created, developed, and taught Essentials of *Computer Technology for Business Professionals*. Presented this class at UC Berkeley Engineering Extension, Berkeley Worldwide, Berkeley Haas Center for Executive Development, Stanford University Continued Education Program, and for many corporate clients including EMC Corporation, Adaptec, Network Appliance and various law firms. Taught since 1997, this comprehensive in-depth overview of computer technology is one of Berkeley Extension's most highly rated professional development courses receiving an aggregate 4.8 out of 5 on over fifteen hundred evaluations.
- Contracted by Adaptec to author a full-day course entitled *Storage Area Networks and Networking Essentials*, which I delivered over several sessions worldwide (live in classroom and via the web) to their corporate-wide sales and marketing teams. Taught this course at UC Berkeley Engineering Extension.
- Contracted by BAIN & Co. (one of the world's leading business consulting firms ([www.bain.com](http://www.bain.com))) to help launch their Information Technology practice by training their top 200 partners and managers worldwide (held 8 trainings in San Francisco, Boston, London, Munich, Milan, and Singapore during 2000 and 2001). Taught IT infrastructure using a customized version of my *Essentials of Computer Technology for Business Professionals* course.
- Co-authored a 2-day course entitled *The Technical and Legal Essentials of Using Linux and Open Source*.

## EDUCATION

**Stanford University - Stanford, California**

M.A. Health Psychology

Thesis: "A Computer-based Psychological Resistance Intervention Training System for working with interpersonally-challenged executives."

**New York Institute of Technology - Old Westbury, New York**

B.S. in Electronic Engineering with a minor in Computer Science

2007 - 2017

## ADDITIONAL LEADERSHIP EXPERIENCE

**Pacific Voices Choir – Santa Cruz, CA**

**Board President**

- As Board president of this 70-voice community choir ([www.pacificvoices.org](http://www.pacificvoices.org)), I led the process of transforming the organization from a founder's choir to a true community choir, including acquiring 501(c)3 non-profit status.
- Created process and policy, made core business decisions, hired an artistic director and accompanist, and maintained fiscal viability.

## REFERENCES AVAILABLE ON REQUEST

Please see recommendations on my [LinkedIn profile](https://www.linkedin.com/in/eric-braun-a2a3372) at <https://www.linkedin.com/in/eric-braun-a2a3372>