

Laurence Brevard

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TECHNICAL SKILLS OVERVIEW

PC, Unix, Internet and Intranet Networking

Systems consulting, hardware and software recommendations.
Web server setup and configuration. Website development.

Electronic Design Automation

Design Representation technology – data structures, languages, programming interfaces. Digital logic simulation systems, language design and implementation, R&D in design capture systems, design data semantics and modeling for EDA standards development.
Test systems. Instruction sets. Virtual machine architecture

EXPERIENCE

Dec.2009 JABIS Security Systems
Present Austin, Texas

Software Development Consultant

Implemented browser client-side only (no server) Microcontroller Product Selector Guide for distribution on CD-ROM and USB sticks. Done for NEC Microelectronics then updated after their merger into Renesas Electronics America. All style elements supplied by Renesas CSS but modified for server-less environment. Now consulting on integration from PDF site- and floor-plans to Google Earth, Twitter, streaming security video, and other external sources.

ENVIRONMENT: Excel, DHTML, CSS, JavaScript, JQUERY

Nov.2007 Saratoga Data System, Inc.
Present San Jose, California

Acting Director of Engineering

Organically funded startup with products for GDSII file size reduction and high efficiency long distance data transfer. Providing pre- and post-sales support. Hiring consultants for development and system administration. Defining next generation products with CTO.

ENVIRONMENT: Make, shell scripting, GNU Linux, Solaris, G++, VS2008, VMware, Cygwin, FlexLM

Nov.2011 University of Texas at Austin, Strauss Institute
Jul.2013 Austin, Texas

Software Application Migration and Development

Converted March 1997 "Keywords" text search system (see below) from physical to virtual machine and updated database.

Text now imported to SQLite database with Python. Search applications first used PHP then, with consultants, Ruby on Rails. Development done on OS X with delivery on CentOS 6.

ENVIRONMENT: Python, Excel, SQLite, PHP, Ruby on Rails, rvm

Nov.2004 - Nov.2007	<p>Synopsys, Inc. Mountain View, California</p> <p>Alliance Manager + R&D Managed relationships with compute platform vendors and Synopsys business units then ran MAP-in program developed while in R&D. Provides Milkyway database access to other EDA vendors. Implemented Milkyway to OpenAccess translator in C++.</p> <p>ENVIRONMENT: MS Office, GNU Linux, G++, TCL, VS.NET, Solaris</p>
Dec.2003 - Oct.2004	<p>Cadence Design Systems San Jose, California</p> <p>Architect Implemented Milkyway to OpenAccess 2.2 translator in C++. Worked on performance and capacity analysis. Consulted on strategic issues.</p> <p>ENVIRONMENT: VS.net, C++, Windows XP, Solaris, GNU Linux</p>
Sep.2001- Dec.2003	<p>Avant! Corporation acquired by Synopsys, Inc. Beaverton and Hillsboro, Oregon</p> <p>Staff Engineer Worked in R&D with technical marketing to "open" the Milkyway database responding to OpenAccess. Developed stand-alone linkable library C-API for customers and third-party EDA companies. Developed documentation and training and public presentations.</p> <p>ENVIRONMENT: C, Perl, Solaris, Linux</p>
Sep.1999- Feb.2001	<p>MediSpecialty.com, Inc. Austin, Texas</p> <p>Vice President of Information Systems MediSpecialty.com, Inc. developed and hosted OBGYN.net a physician reviewed woman's health network and other medical specialty sites. Responsible for hardware, software, and networking selection and application, hiring and managing employees and consultants.</p> <p>ENVIRONMENT: Win2K Server, Linux, ColdFusion, ASP, Perl</p>
Jun.1997- Aug.1999	<p>Motorola Semiconductor Products Sector (SPS) Austin, Texas</p> <p>EDA Support and Development Programmer Intranet based EDA Support and Development Telephone, email, and Intranet based support for the Unified Design System. Created CGI applications interfacing X.500 authentication, download, bug tracking, licensing, and Email systems. Provided Windows NT access to Unix users via Tektronix WinDD. Moved to Automated Formal Verification group. Processed usage statistics with Perl. Evaluated VHDL front-ends for AFV.</p> <p>ENVIRONMENT: Solaris, HP-UX, Windows NT, CGI, Perl, C, TCL</p>

Jan.1995-
May 1997

Brevard & Brevard, Inc.

Austin, Texas

Full-Time Consultant

EDA Standards Development

- Contract with CFI (now SI2.org) to extend Design Representation Information Model and Programming Interface for compatibility with EDIF 3.0.0.
- 1996-1997 Contract with Electronic Tools Company to extend CFI DR-PI for printed circuit board (PCB) objects and define API.

Internet Site Development

- Contract with Elecomm Corporation November 1995 – May 1996. Development for Texas Dept. of Commerce (TDoC). Online calendar in Perl CGI on Sun Solaris. Ported Solaris Oracle database query system to NT 3.51 server, IIS, and Cold Fusion 1.0.
- March 1997 with Professor Rod Hart, Univ. of Texas, College of Communications for "Keywords" application indexing ~25,000 text files with Index Server 1.1 on Windows NT 4.0 Workstation. Perl to create executable MS IDQ file (predecessor to ASP) and for administrative tools and hit highlighting.

May 1984-
Dec.1994

Microelectronics & Computer Technology Corp. (MCC)

Austin, Texas

Senior Member of the Technical Staff

EDA Research, Programming, and Standards Development

Developed design representation and simulation in Object Oriented Lisp. Developed schematic capture on Lisp Machine and UNIX / X Window System. Design representation standards with VHDL, EDIF, and CFI. Built standards prototypes and example applications.

ENVIRONMENT: Lisp, C, Unix, X Windows, VHDL, EDIF, CFI.

Sep.1981-
Apr.1984

GE Calma (formerly CGIS)

Austin, Texas

Developer and Development Manager

Tegas Behavioral Description / Simulation System

Designed architecture and implemented core of interpreter. Managed development of language, simulator, and debugger.

ENVIRONMENT: EDA, VAX VMS, Fortran, lex/yacc, Macros

1973-
1981

Texas Instruments (TI)

Houston and Austin, Texas

Minicomputer Systems Engineer & Programmer

Automated Test System systems programs including logic simulator. Minicomputer Design group simulator use, instruction set design and testing. Instruction and system architecture for 32 bit minicomputer.

ENVIRONMENT: Test, EDA, TI-960 and TI-990 operating systems, assembly language, TI-Pascal

1983-
2001

Brevard & Brevard, Inc. (BrevardAndBrevard.com)

Austin, Texas

Part-Time Computer Systems Consultant

- Support for wife's CPA business and other small businesses.
- Hardware and software acquisition, integration, and configuration.
- Communications, remote access and Internet connections.

ENVIRONMENT: PC and Unix systems, modems: ISDN, cable, ADSL, analog modems, Windows /Unix networking, scripting: PC, shell, Perl

EDUCATION

[Rice University](#), Houston, Texas

May 1972 – Bachelor of Arts (Electrical Engineering)

May 1973 – Master of Electrical Engineering (Computer Design)