

Laurence Brevard

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TECHNICAL SKILLS OVERVIEW

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

PC, Unix, Internet and Intranet Networking

Systems consulting, hardware and software recommendations.

Web server setup and configuration. Web site development.

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.

<http://brevardandbrevard.com/rea-mpsg51/> has a review copy.

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

Nov.2004 - Synopsys, Inc.

Nov.2007 Mountain View, California

Alliance Manager + R&D

Managed relationships with compute platform vendors and Synopsys business units for six months then took over the Milkyway MAP-in program developed previously while in R&D at Synopsys. This provides Milkyway database access to other EDA vendors. Implemented Milkyway to OpenAccess translator in C++ for new product group.

ENVIRONMENT: MS Office, GNU Linux, G++, TCL, VS.NET, Solaris

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- Dec.2003 - Oct. 2004 Cadence Design Systems
San Jose, California
Architect
Implemented Milkyway to OpenAccess 2.2 translator in C++. Worked on performance and capacity analysis. Consulted on strategic issues.
ENVIRONMENT: VS.net, C++, Windows XP, Solaris, GNU Linux
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- Sep.2001- Dec.2003 Avant! Corporation acquired by Synopsys, Inc.
Beaverton and Hillsboro, Oregon
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.
ENVIRONMENT: C, Perl, Solaris, Linux
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- Sep.1999- Feb.2001 MediSpecialty.com, Inc.
Austin, Texas
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.
ENVIRONMENT: Win2K Server, Linux, ColdFusion, ASP, Perl
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- Jun.1997- Aug.1999 Motorola Semiconductor Products Sector ([SPS](#))
Austin, Texas
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.
ENVIRONMENT: Solaris, HP-UX, Windows NT, CGI, Perl, C, TCL
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- 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 (DR) and simulation on Object Oriented Lisp systems. Developed schematic capture systems on Lisp Machine and UNIX / X Window System. Developed design representation standards with VHDL, EDIF, and CFI. Developed DR 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)