

# Laurence Brevard

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## ***TECHNICAL SKILLS OVERVIEW***

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### **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***

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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 floorplans to Google Earth, Twitter, streaming security video, and other external sources.

***ENVIRONMENT: Excel, DHTML, CSS, JavaScript, JQUERY***

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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***

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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***

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Nov.2004 - Nov.2007	<p>Synopsys, Inc. Mountain View, California</p> <p><b>Alliance Manager + R&amp;D</b> Managed relationships with compute platform vendors and Synopsys business units then ran MAP-in program developed while in R&amp;D. Provides Milkyway database access to other EDA vendors. Implemented Milkyway to OpenAccess translator in C++.</p> <p><b>ENVIRONMENT: MS Office, GNU Linux, G++, TCL, VS.NET, Solaris</b></p>
Dec.2003 - Oct.2004	<p>Cadence Design Systems San Jose, California</p> <p><b>Architect</b> Implemented Milkyway to OpenAccess 2.2 translator in C++. Worked on performance and capacity analysis. Consulted on strategic issues.</p> <p><b>ENVIRONMENT: VS.net, C++, Windows XP, Solaris, GNU Linux</b></p>
Sep.2001- Dec.2003	<p>Avant! Corporation acquired by Synopsys, Inc. Beaverton and Hillsboro, Oregon</p> <p><b>Staff Engineer</b> Worked in R&amp;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><b>ENVIRONMENT: C, Perl, Solaris, Linux</b></p>
Sep.1999- Feb.2001	<p>MediSpecialty.com, Inc. Austin, Texas</p> <p><b>Vice President of Information Systems</b> <a href="http://MediSpecialty.com">MediSpecialty.com</a>, Inc. developed and hosted <a href="http://OBGYN.net">OBGYN.net</a> 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><b>ENVIRONMENT: Win2K Server, Linux, ColdFusion, ASP, Perl</b></p>
Jun.1997- Aug.1999	<p>Motorola Semiconductor Products Sector (<a href="#">SPS</a>) Austin, Texas</p> <p><b>EDA Support and Development Programmer</b> <b>Intranet based EDA Support and Development</b> 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><b>ENVIRONMENT: Solaris, HP-UX, Windows NT, CGI, Perl, C, TCL</b></p>

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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](http://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.

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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.**

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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**

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1973-  
1981

Texas Instruments ([TI](http://TI.com))

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**

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1983-  
2001

Brevard & Brevard, Inc. ([BrevardAndBrevard.com](http://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)