

Experience

Hewlett Packard Enterprise

San Jose, CA

Vice President & Chief Strategist, Hewlett Packard Labs

Nov 2019 - present

- **Management:** Team of program managers and strategist to support research programs & projects.
- **Play to Win Strategy:** Disruptive Development, High Performance Computing & Trustworthy AI strategies.
- **Governance Process:** Stage-gate model to manage disruptive research projects & existing programs.
- **Information Repository:** Automated and self-service BI based system for tracking programs & projects.
- **Internal Advisory Board:** Board of GM level business & technical experts to advise on research activities.

Vice President & Chief Technologist, Software Defined Cloud Business Group

Mar 2014 - Oct 2019

- **Landscape Charts:**
- **Pathfinder Investments:** Platform9
- **Acquisitions:** Simplivity, QuattroNetworks, Plexxi
- **Cloud Brokering:** ...
- **HyperConverged:** Drove the acquisition of Simplivity to

VMware

Palo Alto, CA

Chief Architect

Jan 2012 - Mar 2015

- **Management:** 30 person Platform Security Engineering & 500 person Global Quality Engineering teams.
- **Business Development:** Application of virtualization in the automotive, IoT, industrial & entertainment markets.
- **Secure Thin Hypervisor:** Bare metal hypervisor for Cloud Native Application development & server management.
- **Security Response Center:** Tools & processes to reduce likelihood of vulnerabilities & their impact to customers.
- **CVSS for Virtualization:** Revised scoring system that better categorized vulnerabilities.
- **Security Score Cards:** Engineering wide, consistent model to measure individual products against a common set of security objectives.
- **Security Education/Training:** World-wide engineering formal & informal training programs for 5,000 engineers.
- **Capital Savings:** Company wide infrastructure inventory and reservation system that eliminated \$5M/year capital expense.
- **Predictive Analytics:** Tools that improved testing estimations, eliminated duplicative & identified testing gaps.
- **CQE Alignment:** Realigned System & Functional QA to development teams that improved production, increase collaboration & decrease duplication.

Chief Technology Officer for Worldwide Public Sector, Office of the CTO

Sep 2008 - Dec 2011

- **Business Growth:** Evangelism contributed to growing the US Federal business from \$50M to \$500M.
- **Cloud Computing:** Member of National Institute of Standards effort to develop SP-500 series.
- **IPv6:** Drove the prioritized implementation of IPv6 in products to meet US Federal requirements.
- **High Assurance Platform:** Moved the multi-level security domain system product from a customized hypervisor to a commercial version of VMware Workstation, including federal security assurance requirements.
- **Secure Hypervisor:** Led the development of a prototype of a highly secure bare metal client hypervisor. Client platform leveraged functionalities, scalability and stability of ESX while preserving device compatibility of a legacy desktop system.

Director of Software Engineering

Nov 2004 - Sep 2008

- **Management:** 70 person world-wide engineering organization working with OEMs and IHVs.
- **Partner Support:** Created a 3-tiered OEM & ISV support model that increased coverage of partners.
- **Certification Suite:** Automated testing suite that supports over 2000 servers & 200 storage devices.
- **Hardware Compatibility List:** Transitioned from static documents to a public facing database driven website
- **OEM Preferred Operating System:** New versions of vSphere supported at release by all major system OEMs.
- **Security Certifications:** Achieved Common Criteria EAL 4 and FIP-140-2 cryptographic certifications.

SQU Systems

Software Consultant

Palo Alto, CA

Sep 2001 - Nov 2002

Early stage startup working on “Software Hot Swapping” technology to patch and replace sections of a running operating systems.

Home Business Magazine

Freelance Writer & Technical Editor

Mountain View, CA

Apr 2001 – Jul 2004

Developed a book on building home networks. As editor wrote & reviewed articles on technology targeted towards the home business market. Magazine had a circulation of 65K newsstand copies and 22K paid subscribers.

Compaq Computer Corporation

Director Software Engineering, Advanced Technologies Group

Palo Alto, CA

Jan 1998 - Sep 2001

- **Management:** 20-person, multi-location engineering organization within the corporate research organization
- **NT-Atom:** Delivered two major and several minor releases of the NT-Atom Binary Instrumentation and Analysis Framework Application product.
- **Digital Continuous Profiling Infrastructure:** Developed image manipulation library for Windows NT, both Intel and Alpha architectures.
- **Dynamic Optimizer:** A prototype dynamic optimization system for TRU64 Unix and Windows NT/Alpha
- **Post-link Static Optimizer Environment:** A Linux integrated performance & analysis tool development environment for Linux.
- **Hardware Adaptable Images:** Dynamic binary modification of executables based upon available hardware.

Digital Equipment Corporation

Senior Software Engineering Manager

Palo Alto, CA

Jan 1990 - May 1998

- **Management:** Managed multiple groups of 40 to 80 software engineers located in Palo Alto, CA, Irvine, CA, Bellevue, WA, and Littleton, MA.
- **Database Competency Center:** Managed a team of database & performance software engineers that worked with the major database vendors to achieve leadership TCP Benchmark results.
- **Windows NT Competency Center:** Managed a team of software engineers embedded within Microsoft to support the development of applications on the Windows NT for Alpha platform.

Principal Software Engineer

Mar 1983 - Jan 1986

- **Alpha Architecture:** Drove the adoption and implementation of adding byte and word operations back in the Alpha Architecture.
- **Fat Binaries:** Invented a method to allow for optimization and execution of applications for different generations of instruction set architectures. Implemented on Windows NT/Alpha that resulted in up to 50% application performance improvement.

- **EPA GIS System Integration Program:** Led a 10-person team in developing all technical deliverables for the RFP, Live Test Demonstration and contract modifications for the successful \$140 million contract win.
- **CHAMPVA:** Lead software developer of the claims processing system for the Civilian Health & Medical Program of the Department of Veterans Affairs. Developed several device drivers, imaging scanning software and installation subsystem.
- **NASA Space Station:** Designed the Integration, Test, Verification and Execution and Avionics Development Facility computer system for RFP and subsequent award. Built prototype interface module for communicating with the multitude of communication busses on the simulator. Code was written in a mixture of ADA, FORTRAN, C and VAX assembler.

Hardware Engineer

Jun 1983 - Aug 1986

- **Information Transport System Decision Support System:** Lead engineer that developed a prototype multimedia workstation. Developed the calendar subsystem, security system (hardware and software), graphics subsystem and applications library.
- **VAXLab User Management System:** Software for automating the management of VAX/VMS systems.
- **Laboratory Information Management Systems:** Developed the software and API library set for graphing data from various laboratory instruments in real-time.

United States Navy

Various

Naval Reserve Officer

Sep 1985 - Dec 2016

Led organizations from 25 to 1000+ personnel across multiple disciplines including surface operations, communications, computer technology, intelligence and security. Commanded 7 different units. Served on active duty from Aug 1986 to Mar 1990, Dec 2002 to Nov 2004

Volunteer Efforts

Trustee, Naval War College Foundation	2018 - present
Northeastern University, College of Electrical & Computer Engineering Advisory Board	2006 - present
National University, Cyber Security and Information Assurance Advisory Council	2010 - 2013
U.S. Secretary of the Navy, National Naval Reserve Forces Policy Board	2005 - 2008

Education

Joint Staff College at National Defense University	Jun 2004
Diploma (Master of Arts equivalent) in Operational Planning	
United States Naval War College	Jun 1998
Diploma (Master of Arts equivalent) in Defense and Strategic Studies	
Northeastern University	Jun 1986
Bachelor of Science in Electrical and Computer Engineering	