David Hunter
https://linkedin.com/in/hunterdp
Email : dph@alumni.neu.edu
Mobile : +1-650-814-1346

Experience

Hewlett Packard Enterprise **San Jose, CA**
Vice President Engineering & Chief Strategist, Hewlett Packard Labs **Mar 2015 - present**

- **Management**: Team of program managers and strategist to support research programs & projects.
- **Play to Win Strategies**: Disruptive Development Process, Aura Zero Trust Framework, 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.
- **Advisory Board**: Created an executive level committee of business & technical experts to provide advice & insights on internal research activities.
- **Investments & Acquisitions**: Drove the acquisition of Simplivity, Quattro Networks and Plexxi. Created the partnership and investment in Platform9.
- **Workloads as a Service**: Architecture that provided the ability for application workload execution brokering to the appropriate execution domain, across physical hosts, virtual machines or containers.
- **HyperConverged**: Devised multiple architecture strategies to enter the HCI market, finalized by the acquisition of Simplivity.
- **Technical Career Path**: Chaired two division technical promotion boards and a member of corporate Fellow/Senior Fellow promotion board.

VMware **Palo Alto, CA**
Chief Architect, Software Defined Data Center Business Unit **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 Engineering, Ecosystems Engineering **Nov 2004 - Sep 2008**

- **Management**: 70 person world-wide engineering organization working with OEMs, IHVs & ISVs.
- **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.
- **Certification Suite**: An automated testing suite that increased the number of supported servers and storage arrays from 20 & 5 to over 2000 & 200 devices in 2 years.
- **Security Certifications**: Achieved Common Criteria EAL 4 and FIP-140-2 cryptographic certifications.

SQU Systems **Palo Alto, CA**
Software Consultant **Sep 2001 - Nov 2002**

Early stage startup working on "Software Hot Swapping" technology to patch and replace sections of a running operating systems. Effort was moved off-shore and shutdown.

Compaq Computer Corporation **Palo Alto, CA**
Director Software Engineering, Advanced Technologies Group **Jan 1998 - Sep 2001**

- **Management**: 20-person, multi-location engineering organization within the corporate research organization
- **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.
- **Hardware Adaptable Images**: Dynamic binary modification of executables based upon available hardware.

Digital Equipment Corporation **Palo Alto, CA**
Senior Software Engineering Manager, Software Partner Engineering **Jan 1994 - Jan 1998**

- **Management**: Managed department consisting of 5 managers, 80 full-time and contract engineers, involved in supporting the migration and co-engineering of applications to OpenVMS, TRU64 Unix and Windows NT for Alpha.
- **NT-Atom**: Delivered two major and several minor releases of the NT-Atom Binary Instrumentation and Analysis Framework Application product.
- **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, Alpha Migration Center **Jan 1992 - Jan 1994**

- **Alpha Architecture**: Drove the adoption & implementation of adding byte and word instructions operations into the Alpha Architecture.
- **Fat Binaries**: Invented a method to allow for optimization and execution of applications for different generations of instruction set architectures. Technology was shipped on Windows NT by MIcrosoft that resulted in up to 50% application performance improvement.
- **Patchwrks**: Research tool that constructed full instruction stream traces of the operating system and applications running on a processor or multiprocessor system. Work was a continuation of a DEC System Research Center project.

Senior Software Engineer, Government Systems Group **Mar 1990 - Jan 1992**

- **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 for $4.5M the Civilian Health & Medical Program claims processing system for the Department of Veterans Affairs. Developed several device drivers, imaging scanning software and installation subsystem. Developed in C and assember.
- **NASA Space Station**: Designed the Integration, Test, Verification, Execution and Avionics Development Facility computer system for RFP and subsequent award. Designed & built prototype hardware interface for communicating with the multitude of communication busses on the simulator to the VAX/VMS development system. Code was written in a mixture of ADA, FORTRAN, C and VAX assembler.

Hardware Engineer, Laboratory Data Products **Jun 1983 - Aug 1986**

- **Information Transport System Decision Support System**: Prototype multimedia workstation. Developed the calendar subsystem, security system (hardware and software), graphics subsystem and applications API library. Developed in FORTRAN.
- **VAXLab User Management System**: Software for automating the management of VAX/VMS systems. Developed in DCL and BLISS-32.
- **Laboratory Information Management Systems**: Developed software and API library for graphing data from various laboratory instruments in real-time. Developed in C, FORTRAN and Pascal.

United States Navy **Various**
Naval Reserve Officer **Sep 1985 - Dec 2016**

Served on active duty from Aug 1986 to Mar 1990 & Dec 2002 to Nov 2004

Volunteer Efforts

Trustee, Naval War College Foundation	2018 - present
VMware Partner Advisory Board	2019 - 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

Patents

US6470493: Computer method and apparatus for safe instrumentation of reverse executable program modules.

US6115550: Loader conditionally replacing a code sequence with a functionally-alike code sequence in an executable program intended for execution indifferent run-time environments.

US5920721: Compiler generating functionally-alike code sequences in an executable program intended for execution in different run-time environments.

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