

EDUCATION

Cornell University, Ithaca, NY

Bachelor of Science in Electrical and Computer Engineering - 1989

Navy Nuclear Power School, Orlando, FL

Graduate level studies in Nuclear Engineering. Advanced coursework in Mathematics, Thermodynamics, Chemistry, Physics, Electrical Engineering, Material Science and Plant Operations. Operational experience with land-based nuclear training facilities at Knolls Atomic Power Laboratory, Balston Spa, NY.

University of Idaho, Moscow, ID

Legislative Energy Horizon Institute Energy Policy Planning Program – 2014

National Conference of State Legislatures, Washington D.C.

NCSL Wireless University – 2015

NCSL Cable Academy – 2016

POLITICAL EXPERIENCE

State Representative, 5th Legislative District, Position 2

1/13–1/17

Two terms as state representative for the 5th Legislative District, home to over 140,000 in the eastern third of King County, including Issaquah, East Renton Highlands, Maple Valley, Black Diamond, Carnation, Fall City, Snoqualmie, and North Bend through Snoqualmie Pass. Elected to caucus leadership (Asst. Floor Leader) in 2013. Appointed to the following committees:

House Education (2013–17, Ranking Member from 2014–17)

House Appropriations (2015–17)

House Technology & Economic Development (2013–17)

House Higher Education (2013–15)

House Rules (2013–15)

Quality Education Council (2013–15)

Career Education Opportunities Joint Legislative Task Force (2013–17)

Education Accountability System Oversight Committee (2013–17)

Joint Legislative Systems Committee (2013–17, Chair from 2014–16)

Technology Services Board (2013–17)

Joint Select Committee on Article IX Litigation (2014–17, Co-chair from 2015–17)

Legislative Task Force on School Siting (2015–16)

Governor's Work Group on Education Funding (2015–16)

Education Funding Task Force (2016–17)

Major legislation passed:

HB 1813 (**Computer Science Education**) - Republican co-sponsor w/ Rep. Drew Hansen

HB 1472 (**Computer Science**) - Sponsored committee substitute w/ Rep. Drew Hansen

HB 2375 (**Cybercrime**) - Prime sponsor, speaker at NCSL 2016

HB 1853 (**Electric Vehicle Infrastructure**) - Prime sponsor

SB 6248 (**Coal Transition**) - Republican co-sponsor of House companion bill

HB 2382 (**Alt. Routes to Teacher Certification**) - Prime sponsor, amended in full to SB 6455 (Teacher Shortage)

SB 6194 (**Charter Schools**) - Prime sponsor of House companion bill

SB 6245 (**Near Vision Screening**) - Prime sponsor of House companion

HB 2449 (**Truancy Reduction**) - Republican co-sponsor w/ Rep. Tina Orwall

SB 6195 (**Basic Education Obligations**) - Republican co-sponsor of House companion bill

HB 2443 (**Economic Success Metrics**) - Prime sponsor, passed as budget proviso

School Director, Issaquah School Board

11/08–1/13

Appointed and later elected to local school board, providing policy governance for 25 schools and 17,831 students, preparing each to accept the academic, occupational, personal, and practical challenges of life in a dynamic global environment. Served in the following roles:

Board President (2011–12)

Legislative Representative (2009–11)

WSSDA Legislative Committee (2009–12)

NSBA Legislative Coordinator for Congressional District 8 (2009–12)

Washington Online Learning Advisory Committee (2013–15)

Washington State PTA Outstanding Advocate (2009)

**WORK
EXPERIENCE**

Chief Experience Officer (CXO), Voter Science, Bellevue, WA 3/17–Present
 Director of product development for political canvassing, fundraising and analytics tools; developer of mobile clients on Android and iOS platforms

TEALS Computer Science Teacher, Gibson Ek High School, Issaquah, WA 6/17–Present
 Volunteer instructor for TEALS, a program that I helped start with Kevin Wang from Microsoft Philanthropies in 2009 that has now grown to 498 schools nationwide

User Experience Manager, Jetstream Software, Kirkland, WA 7/04–Present
 Contract software design and development for the following products:

- Virtual Garage**, Bosch Automotive 3-10/14-, 11/18–Present
- In-Flight Entertainment Concepts**, Panasonic Avionics 8–10/09, 7–9/10, 7–9/13, 8–10/15, 9–10/18
- Luxor Live Traffic Monitoring System**, BlueMAC 11/17–2/18
- Space Needle iPhone App**, Space Needle, LLC 5/16–6/16
- Threat Modeling Tool**, Microsoft (Security Development Lifecycle) 9/08–8/09, 5/14–7/14
- Security Basics, Dev Ops, & Threat Modeling Courses**, Microsoft (IEB Security Assurance) 12/12–7/13
- File Server Admin Console**, Microsoft (Server) 3/11–6/13
- Robotics Developer Studio**, Microsoft (Robotics) 11/11–2/12
- Genuine Rewards Program**, Microsoft (Channel Marketing) 10/10–2/11
- Windows 8 Shell & App Store**, Microsoft (Windows XDR) 4/10–7/10
- Microsoft Surface 2.0**, Microsoft (Surface) 2/10–4/10
- BuddyTV.com**, BuddyTV 1/10–2/10
- Microsoft CRM Online**, Microsoft (Microsoft Dynamics) 8/08–8/09
- Consumer Kiosk**, MOD Systems 2/08–4/09
- NextWeb Home Page Components**, Microsoft (Developer and Platform Evangelism) 12/08–2/09
- Supernova**, Syntrix Biosystems 2/08–8/08
- Microsoft Business Systems Demos**, Microsoft (Microsoft Dynamics) 5/08–6/08
- Nike+ Sportband**, Nike 1/08–5/08
- Rave CRM**, Entellium 12/04–3/08
- WebIRIS Incident Management Client**, Iomedix 3/07–11/07
- Desktop Deployment Tracker**, Microsoft (MacBU) 7/06–2/07
- Video Performance Tuner**, Microsoft (eHome) 4/06–1/07
- Windows Vista Audio/Video Configuration**, Microsoft (WAVE) 8/05–7/06
- CereVision Stroke Diagnostics**, Digital Partners 1/06–2/06
- Windows Vista Audio Effects**, Microsoft (CMPT) 4/05–11/05
- Deployment Tool**, Microsoft (Hosting) 7/04–5/05

Awards: 2008 SIIA Codie Awards, Finalist for Best Software as a Service Solution
 2007 BusinessWeek IDEA Awards, Bronze for Interaction Design
 2007 SoftwareCEO Software Innovation Awards, Most Innovative SMB Infrastructure Software

Program Manager, Microsoft Corporation, Redmond, WA 3/95–6/04
 Responsible for overall design and project management for the following products:

Windows Vista, Windows Hardware Innovation Group 7/01–6/04
 Lead PM for Windows Hardware Design Group, reporting to Windows Design Director. Responsible for driving user research and prototyping efforts that provoke new thinking in form factors and interaction design, complementing strategic software investments in future Windows and Office releases. External deliverables include Windows hardware design guidelines, hardware reference specifications, hardware development kits, and integrated system prototypes.

Windows XP, Windows User Experience Team 11/99–7/01
 Lead PM for Windows XP visuals, shell navigation, file management, media integration, CD burning, and publishing. Responsible for broad partner engagement, including ISV evangelism events and pre-launch briefings for congress and state attorneys general on new XP features.

Office 2001 for Macintosh, Macintosh Business Unit 1/98–7/99

Office 98 for Macintosh, Macintosh Business Unit 1/97–1/98
 Lead PM for Office shared libraries and components, including common user interface elements (i.e. menus, toolbars, dialogs, work panes, and window management), user assistance, file converters, graphic filters, and overall suite performance. Chief technical liaison between Microsoft and Apple Computer.

Encarta Online , Reference Business Unit	9/96–1/97
Encarta 97 Encyclopedia (Mac) , Reference Business Unit	3/96–9/96
Bookshelf 1996-97 Edition (Mac) , Reference Business Unit	10/95–4/96
Bookshelf Online , Reference Business Unit	10/95–2/96
Exploring Planetary Worlds (Win) , Lifestyles Business Unit	4/95–5/95
Frank Lloyd Wright (Mac) , Lifestyles Business Unit	4/95–6/95

Awards: 25th Annual Telly Awards (2003), Bronze for Film/Video
 Microsoft DesignDay 2004 Awards, Most Innovative Design
 Microsoft DesignDay 2003 Interactionary Competition, Winner
 PC World 20th World Class Award, Best Operating System
 BusinessWeek Best Products of 2001
 Comdex Eighteenth Annual Awards for Technical Excellence
 Macworld Best New Software Product of the Year
 MacUser Editor's Choice Awards, 2 Winners & 3 Finalists
 Macworld World Class Awards, 2 Winners & 1 Finalist
 Apple Design Awards, 2 Finalists
 Microsoft Patent Awards, 20 Total

Software Test Lead, Microsoft Corporation, Redmond, WA 11/94–9/95

Responsible for overall test coverage and quality assurance for the following products:

Cinemanía 95 & 96 (Mac & Win) , Lifestyles Business Unit	6/94–9/95
Music Central 96 (Mac) , Lifestyles Business Unit	10/94–9/95
Wine Guide (Mac & Win) , Lifestyles Business Unit	3/95–8/95
Ancient Lands 1.0 (Mac) , Lifestyles Business Unit	1/95–5/95
Art Gallery 1.0a (Mac) , Lifestyles Business Unit	2/95–3/95

Engineering Lead, Aladdin Systems, Watsonville, CA 5/91–7/99

Extensive experience with developing low-level system utilities for the Macintosh and Win32 environments in C++, C, Pascal, and Assembler. Authored ShrinkWrap™, a cross-platform shareware utility to create and manage disk image files. Aladdin Systems purchased all rights in 1995 and distributed commercially worldwide.

Awards: MacAddict Magazine's Best Shareware Utilities
 Runner-up Best Utility in 1995 and 1996 MacUser Shareware Awards
 Finalist in 1995 and 1996 Usenet Macintosh Programming Awards

Lieutenant, U.S. Navy Submarine Service 5/89–6/97

Thorough knowledge of design and operation of engineering plant equipment including heat exchangers, hydraulic plants, pneumatic systems, steam turbines, diesel engines, lube oil systems, pumps, valves, water chemistry controls, radiological controls, electrical power generation and distribution as well as plant parameter monitoring and control equipment. Implemented extensive maintenance and quality assurance programs for the same systems. Qualified Officer of the Deck, Ship's Duty Officer, Engineering Officer of the Watch, and Ship's Engineer (Nuclear).

SKILLS & INTERESTS

Accomplished public speaker, having presented with Bill Gates to crowds of thousands on multiple occasions with worldwide TV coverage. Noteworthy events include technical briefings for state attorney generals, congressional staffers, and industry CEOs such as Michael Dell, Carly Fiorina, Craig Barrett, Michael Eisner and Warren Buffet.

Proficient in the following environments:

- Development in **C#, C++, C, Python, Pascal**, and **Assembler** using **Microsoft Visual Studio** and **Apple Xcode**
- Rapid prototyping in **WPF, Unity3D, Macromedia Director** and **Flash**
- Web design in **Microsoft Expression Suite** and **Adobe Animate**
- Graphic design in **Adobe Photoshop, Adobe Illustrator**, and **Adobe After Effects**

Microsoft Certified Professional, Microsoft Certified Desktop Support Technician
Washington State Teaching Certificate: #556012C

Interests include electric vehicles, rowing, swimming, diving, sailing, triathlons, and instrumental music.

PERSONAL

6' 1", 210 lbs, Brown hair, Blue eyes. Age: 51. Excellent health.

Top Secret Department of Defense clearance with special background investigation for SIOP/ESI.

REFERENCES

Available upon request.