

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

Central Washington University, Ellensburg, WA

Alternative Pathways to Teaching – 6/19 to 12/19

Master of Arts in Teaching – 1/20 to 3/21 (3.961 GPA)

WORK EXPERIENCE

Computer Science Teacher, Bellevue School District, Bellevue, WA

8/19–Present

Full-time teacher of AP Computer Science, CS Special Topics, CS Discoveries (Code.org), Python (TechSmart), Media Technologies (Adobe), Digital Technologies (Microsoft) and Mobile Game Development (Unity) at Sammamish High and Odle Middle. District recognized for state's top four public high schools (Niche 2022 rankings).

Recognition: Member, Computer Science State Planning Committee

Dispatches from Home: Compassion in Uncertain Times, *Inside BSD*

Staff Spotlight for December 2019, *Inside BSD*

Chief Technology Officer (CTO), 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

Computer Science Teacher, The Lakeside School, Seattle, WA

7/21

Designed and taught Intro to Python (Microsoft) and Mobile App Development (Unity) courses for Lakeside's Investigative Learning Camp, where students entering grades 5 through 8 explore science, technology, engineering, arts, math and writing in hands-on, project-based classes.

TEALS Computer Science Teacher, Gibson Ek High School, Issaquah, WA

6/17–6/19

Volunteer instructor for Technology Education and Literacy in Schools (TEALS), a program that I helped start with Kevin Wang from Microsoft Philanthropies in 2009 that has now grown to 650 schools nationwide.

User Experience Manager, Jetstream Software, Kirkland, WA

7/04–8/19

Contract software design and development for the following products:

Virtual Garage, Bosch Automotive

3-10/14-, 11/18–8/19

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

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

WebRIS 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: 25 th 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.

**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 150,000 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.

Committee assignments:

- 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** (Co-chair, 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

Awards: 2012-18 **Outstanding Rating** from Municipal League of King County
2013-14 **Cornerstone Award** from the Association of Washington Business
2014 **Pioneer Educator** from Digital Public Schools Alliance
2015 **Outstanding Legislator** from Community Employment Alliance
2015-16 **Guardian of Small Business** from National Federation of Independent Business
2016 **Crayon Award** from Early Learning Action Alliance
2016 **Outstanding Legislator** from Eastside Republican Club

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)

Washington State School Directors' Association (WSSDA) Legislative Committee (2009–12)

National School Boards Association (NSBA) Legislative Coordinator for Congressional District 8 (2009–12)

Washington State Online Learning Advisory Committee (2009–13)

Awards: 2012 **Board of Distinction** from WSSDA

2009 **Outstanding Advocate** from Washington State PTA

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, Java, and Assembler** using **Microsoft Visual Studio** and **Apple Xcode**

Rapid prototyping in **WPF, Unity3D, Macromedia Director** and **Adobe Animate**

Web design in **Microsoft Expression Suite** and **Adobe Dreamweaver**

Graphic design in **Adobe Photoshop, Adobe Illustrator, and Adobe After Effects**

Professional certifications:

Teaching endorsements in Computer Science and Technology Education

- **Washington Residency Teaching Certificate: #556012C (through 6/30/2027)**

- **Idaho Standard Instructional Certificate: #467927945 (through 8/31/2024)**

- **Florida Educator Certificate: #1459265 (SOE through 12/15/2024)**

Microsoft Certified Educator (MCE)

Microsoft Innovative Educator (MIE)

Microsoft Certified Professional (MCP)

Microsoft Certified Desktop Support Technician (MCDST)

Microsoft Certified Technology Specialist (MCTS)

Microsoft Technology Associate (MTA)

Microsoft Office Specialist (MOS 2019)

Amazon AWS Academy Educator

Adobe Certified Professional (ACP) in Visual Design

Unity Certified User: Programmer (UCU)

U.S. Navy Ship's Engineer Officer, Nuclear (General)

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

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

REFERENCES Available upon request.