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**GENERAL  
INFORMATION****Home Address:**

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US Citizen                      Born March 15, 1965 in Newport News, VA  
Residence history:          Newport News VA; Redlands CA; Dallas TX;  
Blacksburg VA; Clemson SC; Durham NC; Chicago IL;  
Knoxville TN; Blacksburg VA

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**PROFESSIONAL  
EXPERIENCE**

Professor Emeritus of Electrical and Computer Engineering, Virginia Tech,  
2021-present

Professor, Department of Electrical and Computer Engineering, Virginia Tech,  
8/97-2021

Chief Technology Advisor, *Ocean Tomo, LLC*, August 2013 to December 2013.

Professor, Department of Computer Science, University of Tennessee, 8/93-7/97

Assistant Computer Scientist, Mathematics and Computer Science Division,  
Argonne National Laboratory, Chicago, IL, 6/90 to 7/93.

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**EDUCATION**

Ph.D., Duke University, Computer Science, May 1990.

B.S., Clemson University, Computer Science, summa cum laude, May 1986.

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**RECOGNITION  
AND AWARDS**

Virginia Bioinformatics Faculty Fellow  
1st prize and Honorable Mention at AOL-CIT Research Day  
Virginia Tech College of Engineering Dean's List for Teaching  
NSF CAREER Award  
University of Tennessee Science Alliance Award  
Atanasoff Best Paper Award  
Gordon Bell Prize  
Von Neumann Fellowship  
R. F. Poole Scholarship  
National Merit Scholar

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**EXPERT  
TESTIMONY**

Blackboard v. Desire2Learn  
United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving Internet-based educational  
software employing role-based access control  
*Testified:* Jury trial (infringement and validity), injunction hearing,  
contempt hearing, and deposition (4 times)

TechRadium v. Blackboard  
United States District Court for the Eastern District of Virginia

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United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving network-based emergency notification systems  
*Testified:* Preliminary injunction hearing and deposition

Computer Associates v. Digex  
Circuit Court for Prince George's County Maryland  
*Overview:* Contract dispute involving enterprise management systems  
*Testified:* Jury trial and deposition

Computer Associates v. Retired Persons Services  
United States District Court for the Eastern District of Virginia  
*Overview:* Contract dispute involving enterprise management systems  
*Testified:* Deposition

DVSI v. University of Phoenix and Walden University  
United States District Court for the Eastern District of Virginia  
*Overview:* Patent infringement case involving network-based educational software employing digital rights management  
*Testified:* Deposition (3 days)

VirnetX v. Microsoft  
United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving VPN software in Microsoft Windows and Microsoft's Unified Communications software  
*Testified:* Jury trial (infringement and validity) and deposition (3 days)

TechRadium v. Twitter  
United States District Court for the Southern District of Texas  
*Overview:* Patent infringement case involving network-based notification systems  
*Testimony:* Deposition

Bedrock Computer Tech v. Softlayer et al  
United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving data structures in the Linux operating system's network stack  
*Testimony:* Jury trial v. Google (infringement and validity), Jury trial v. Yahoo (infringement and validity) and deposition (3 days)

CEATS v. Continental Airlines et al  
United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving Web-based interactive seat maps  
*Testimony:* Jury trial (infringement and validity) and deposition (2 days)

VirnetX v. Cisco et al  
United States District Court for the Eastern District of Texas  
*Overview:* Patent infringement case involving secure communications, VPNs, and Voice-over-IP  
*Testimony:* Jury trial v. Apple (infringement and validity), Jury trial v. Cisco (validity), and deposition (3 days), 2<sup>nd</sup> jury trial v. Apple (infringement), 3<sup>rd</sup> jury trial v. Apple (infringement), 4<sup>th</sup> jury trial v. Apple (infringement), 5<sup>th</sup> jury trial v. Apple

Summit6 v. Research In Motion et al  
United States District Court for the Northern District of Texas

*Overview:* Patent infringement case involving network-based photo uploading tools on smartphones and web browsers

*Testimony:* Jury trial v. Samsung (infringement and validity) and deposition (3 days)

Ericsson v. Samsung

International Trade Commission

*Overview:* Patent infringement case involving Java technology and touchscreen technology on smartphones

*Testimony:* Deposition

AT Engine Controls LTD. v. Goodrich Corp and Goodrich Pump & Engine Control Systems, Inc.

United States District Court for the District of Connecticut

*Overview:* Trade secret case involving an embedded computing system design for helicopter engine control

*Testimony:* Deposition

SmartFlash LLC. v. Apple, et. al.

SmartFlash LLC. v. Samsung, et. al.

United States District Court for the Eastern District of Texas

*Overview:* Patent infringement case involving digital rights management and content distribution

*Testimony:* Jury trial v. Apple (infringement and validity) and deposition (4 days)

Unwired Planet v. Apple

United States District Court for the Northern District of California

*Overview:* Patent infringement case involving several technologies related to mobile devices

*Testimony:* Deposition (3 days); technology tutorial presentation to the Court

Facebook v. Rembrandt Social Media

Patent Trial and Appeal Board

*Overview:* Validity of a patent in the area of a web-based diary system

*Testimony:* Deposition

Motorola Mobility v. Intellectual Ventures

Patent Trial and Appeal Board

*Overview:* Validity of a patent in the area transmitting and browsing preformatted information

*Testimony:* Deposition

Summit6 v. Apple et al

United States District Court for the Northern District of Texas

*Overview:* Patent infringement case involving network-based photo uploading tools on smartphones and web browsers

*Testimony:* Deposition

EMC v. Pure Storage et al

United States District Court for the District of Delaware

*Overview:* Patent infringement case involving memory systems

*Testimony:* Deposition and jury trial (infringement and validity)

Parallel Networks v. IBM

United States District Court for the District of Delaware

*Overview:* Patent infringement case involving web servers and load balancing  
*Testimony:* Deposition (2 days)

Parallel Networks v. Microsoft

United States District Court for the District of Delaware

*Overview:* Patent infringement case involving web servers and load balancing  
*Testimony:* Deposition (2 days) and jury trial (infringement and validity)

Microsoft and IBM v. Parallel Networks

Patent Trial and Appeal Board

*Overview:* Validity of a patent related to web servers and load balancing  
*Testimony:* Deposition

adidas v. Under Armour

United States District Court for the District of Delaware

*Overview:* Patent infringement case involving fitness tracking  
*Testimony:* Deposition

BMC Software v. ServiceNow

United States District Court for the Eastern District of Texas

*Overview:* Patent infringement case involving enterprise management software  
*Testimony:* Deposition

Ericsson v. TCL

United States District Court for the Eastern District of Texas

*Overview:* Patent infringement case involving Java technology and security on smartphones  
*Testimony:* Deposition (3 days) and jury trial (infringement)

REM v. Square

United States District Court for the Eastern District of Missouri

*Overview:* Intellectual property case involving credit card readers for smartphones  
*Testimony:* Deposition

AARC v. Chrysler et al

United States District Court for the District of Columbia

*Overview:* Intellectual property case involving car infotainment systems  
*Testimony:* Deposition

Spex Technologies v. Apricorn

United States District Court for the Central District of California

*Overview:* Patent infringement case involving secure memory devices  
*Testimony:* Deposition, Jury trial

United States Conference of Mayors v. Great-West Life Annuity Insurance Co.

United States District Court for the District of Columbia

*Overview:* Contract dispute  
*Testimony:* Deposition and jury trial

Tecsec, Inc. v. Adobe Systems Inc. and Oracle (listed as IBM, et.al.).

United States District Court for the Eastern District of Virginia

*Overview:* Patent infringement case involving secure object technology  
*Testimony:* Adobe: Deposition and jury trial (infringement and validity); Oracle (deposition)

Egenera, Inc. v. Cisco Systems, Inc.  
United States District Court for the District of Massachusetts  
*Overview:* Patent infringement case involving an architecture for a processing platform  
*Testimony:* Deposition, bench trial, and jury trial

Unified Patents v. Sound View Innovations  
Patent Trial and Appeal Board  
*Overview:* Validity of a patent related to concurrency control  
*Testimony:* Deposition

Hulu v. Sound View Innovations  
Patent Trial and Appeal Board  
*Overview:* Validity of a patent related to concurrency control  
*Testimony:* Deposition

Grace and Potter. v. Apple Inc.  
United States District Court for the Northern District of California  
*Overview:* Class action case involving FaceTime  
*Testimony:* Deposition

HTC v. Ericsson  
United States District Court for the Eastern District of Texas  
*Overview:* Patent licensing related to cellular standards  
*Testimony:* Deposition

Windy City.Innovations v. FaceBook, Inc..  
United States District Court for the Northern District of California  
*Overview:* Patent infringement case involving an architecture for a messaging platform  
*Testimony:* Deposition

Hulu v. Sound View Innovations  
Patent Trial and Appeal Board  
*Overview:* Validity of a patent related to real time systems  
*Testimony:* Deposition

Citrix Systems, Inc. v. Avi Networks, Inc..  
United States District Court for the District of Delaware  
*Overview:* Patent infringement case involving network devices  
*Testimony:* Deposition

Rovi v. Comcast  
International Trade Commission  
*Overview:* Patent infringement case set top boxes  
*Testimony:* Deposition, Trial

Seven Networks v. Apple  
United States District Court for the Eastern District of Texas  
*Overview:* Patents related to mobile device push-based communication  
*Testimony:* Deposition

Match Group, LLC v. Bumble Trading Inc.  
United States District Court for the Western District of Texas  
*Overview:* Patents related to online dating apps  
*Testimony:* Deposition

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