8/2013

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# Expert Witness Experience

**Google** **Expert Witness (2012-*present*)**
Suit: OneNumber v. Google
- Area: Single number service, IP Telephony, voice messaging
- Patent assertion entity versus service provider; expert retained by the defendant
- Markman, invalidity, and non-infringement expert reports delivered; deposition given; and trial testimony expected
- Venue: Southern District of Indiana
Firm: Barnes & Thornburg LLP

**Comcast** **Expert Witness (2012-*present*)**
Suit: Comcast v. Sprint
- Area: IP Telephony, specifically numbering, addressing, and Web services
- Two service providers counter-suing; expert retained by the plaintiff
- Expert report, deposition, and trial testimony expected
- Venue: District of Delaware
Firm: Davis Polk & Wardwell LLP

**Intellectual Ventures** **Consultant (2012-*present*)**
Suit: n/a (Patent re-examination)
- Area: IP Multimedia Communications, specifically SIP, 3GPP, and recovery
- Re-examination of U.S. Patents 6,161,133; 7,769,374; and 7,937,081.
- Delivered re-exam responses
- Venue: US Patent & Trademark Office
Results: '081: Two minor claims rewritten. '374: Re-examination pending, almost doubling the number of claims. '133: Re-examination pending.
Firm: Foley & Lardner, LLP

**Siemens Enterprise Networks** **Expert Witness (2012-2013)**
Suit: VirnetX v. Mitel et al.
- Area: Video, Voice, IP Telephony, specifically SIP and secure communications
- Patent assertion entity versus manufacturer; expert retained by the defendant
- Delivered 220+ page analysis of issued patents, prior art, and non-infringement arguments
- Deposition given
- Venue: Eastern District of Texas
Result: Forced settlement on extremely favorable terms
Firms: Pepper Hamilton LLP and Mintz Levin Cohn Ferris Glovsky and Poppeo PC

**Janek** **Consultant (2011-2012)**
Suit: Janek v. Samsung et al.
- Area: Mobile Phone Technology, specifically data collection and transmission, particularly with respect to privacy issues
- Plaintiff versus select handset manufacturers and service providers; expert retained by the plaintiff
- Venue: Northern District of Illinois
Disposition: Provided expert opinion and passed work to colleague.
Firm: Holland, Groves, Schneller and Stolze, LLC

**(Confidential)**     **Consultant (2010)**
Suit: (Confidential)
- Area: Facsimile Technology, specifically the protocols between fax machines and the presentation of items like CSID and date formatting on printed reports
- Plaintiff versus hospital; expert retained by the plaintiff
- Delivered 2 page analysis, with samples of technology capability
- Helped attorneys with how to find records for international calls to find backup records for facsimile transmissions – attorneys were unaware of different international date formats

Firm: Kohn Rath Blackwood & Danon, LLP

**Cisco Systems**     **Expert Witness (2009)**
Suit: ESN v. Cisco
- Area: IP Telephony, specifically SIP, SIP Proxies, and SIP Gateways
- Patent assertion entity versus manufacturer; expert retained by the defendant
- Delivered 120+ page analysis of issued patents and prior art
- Significant input on strategy
- Provided analysis of physical embodiment of invalidating system made from contemporaneous components and published materials
- Delivered 2 page technical analysis of the claimed inventor's employment contract
- Venue: Eastern District of Texas

Result: Summary Judgment for my client
Firm: Quinn Emanuel

I also have been deposed and given testimony in court in a manslaughter case. Witness for the prosecution, Dallas County, TX.

## Academics and Research Management

| | |
|---|---|
| **Research Professor**<br>**Computer Science**<br>*2012-present* | **Georgetown University**, Washington, DC (Department of Computer Science) Full faculty rank professor. Research: networking theory, protocol design, secure communications, and policy aspects of communications |
| **Adjunct Assistant**<br>**Professor**<br>**Computer Science**<br>*2010-2011* | **Georgetown University**, Washington, DC (Department of Computer Science) Operating Systems (COSC 374) |
| **Adjunct Assistant**<br>**Professor**<br>**Computer Science**<br>*2000* | **George Mason University**, Fairfax, VA (Computer Science Department) Data Base and Object Oriented Concepts (CS 450) |
| **Lecturer Information Systems**<br>*1993 – 2000* | **The George Washington University**, Washington, DC (Fac. CCEW) Software Quality Assurance (CWIS 704), Relational Data Base Theory (CWIS 702), Software Engineering (IS 703), Cooperative Application Development, Programming (C) |
| **Ph.D.**<br>**Computer Science**<br>*2006* | **Illinois Institute of Technology**, Chicago, IL Graduated with Highest Honors (4.0/4.0 GPA). Recipient *IIT Exemplary Research Award*. Research topics: high-performance, real-time network protocols, high-performance Internet infrastructure, and distributed systems.<br>Thesis: *Ubiquitous Remote Control of Household Devices*.<br>Thesis Advisor: Ophir Frieder |
| **Doctorate in**<br>**Education**<br>(no degree) | **George Mason University**, Fairfax, VA Recipient Fellowship from the Commonwealth of Virginia. 4.0/4.0 GPA.<br>Research topics: Web-based distance learning, success factors in Web-based collaborative projects, next generation HTTP, XML, and e-commerce. |
| **M.B.A.**<br>**International**<br>**Business**<br>**Management**<br>*1990* | **Katholieke Universiteit Leuven**, Belgium Graduated with Honors. Dual Minor: Economics and Marketing.<br>Thesis: *Multi-National Transfer Pricing Policy*<br>Thesis Advisor: Sylvain R. F. Plasschaert |
| **S.B.**<br>**Electrical**<br>**Engineering**<br>*1984* | **Massachusetts Institute of Technology**, Cambridge, MA Minor: Music. Concentration: Semiconductor Physics. 3.8 GPA. Recipient of a graduate research assistantship as an undergraduate (worked in the Sub-Micron Structures Laboratory).<br>Thesis: *MOS Simulation Techniques*<br>Thesis Advisor: Chris Terman<br>Academic Advisor: L. Rafael Reif |
| (no degree)<br>*1978 – 1979* | **The Juilliard School PCD**, New York, NY Oboe and English Horn performance |
| Oboe &<br>English Horn | Steve Lickman (Dallas Symphony Orchestra), Fred Cohen (New England Conservatory), Lois Wann (Juilliard School) |
| Conducting | James Rives Jones (Minnesota Symphony Orchestra, Southern Methodist University), Christian Tiemeyer (Dallas Symphony Orchestra), F. John Adams (Harvard |

## Employment History

**Director**
*1/12 – present*

**Georgetown Center for Secure Communications**, Washington DC
**Security and Software Engineering Research Center**, Washington DC

Founder and Director of the Georgetown Center for Secure Communications (GCSC) and Founder and Director of the Security an Software Engineering Research Center (S$^2$ERC) at Georgetown. Georgetown is a Carnegie Large private research university. The GCSC brings together industry, academia, and government agencies to enable enterprises and individuals to protect, assist, and collaborate securely. Arising from the growth of cloud computing and mobile technologies, the GCSC was formed to address the need to securely access people and data anywhere in the world across administrative domains. The S$^2$ERC has support from NSF, government, and industry. It addresses the technological barriers to secure network interoperability, as well as social, policy, and corporate governance issues related to secure, inter-enterprise communications, more especially for cyber threat intelligence information sharing. Responsible for P&L, membership recruitment (sales and marketing), operations, and running the technical program (product delivery).

Report to the SVP Research and Chief Technology Officer of the University.

**Independent Consultant**
*6/10 – present*
*5/08 – 6/09*

**Projects include:**

- Assisted an international legacy network equipment manufacturer to determine corporate capabilities, channel capabilities, and appropriate new markets to address new products. Produce plan to refactor the business to address these markets. The client successfully transition into this new business direction and opportunity.
- Assisted a tier-1 North American ISP develop architecture and economic model for CDN interconnect that will dramatically reduce their transit costs while complying with current and expected FCC rules and Congressional policy. In addition, the economic model I developed will be the baseline model for the industry.
- Assisted a startup in the mobile video communication space with business planning and securing financing.
- Assisted a legacy Asian network operator enter the North American mobile advertising space.
- Assisted a startup in the mobile advertising space. Developed intellectual property for the organization.
- Assisted a startup in the media rights space.
- Advise the financial services community on the telecommunications industry on an ongoing basis, including numbering, databases, new gTLD's, ICANN, roaming, lawful intercept, surveillance, cybersecurity, and VoIP.
- Patent strategy for startup and mid-size companies
- Strategic research planning for a large network equipment manufacturer
- Technical due diligence on a hosted services provider for late-stage VC investment
- Architecture consulting on Application Servers and Media Servers, including vendor selection and contract negotiation strategy for a large private equity equipment manufacturer. Saved client three million dollars.
- Architecture and telco-grade high-availability implementation consulting for a hosted voice services application provider
- Advise investment bankers on the telecommunications enabling technology market

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