

Krista S. Jacobsen

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Education

SANTA CLARA UNIVERSITY SCHOOL OF LAW (Santa Clara, CA)

JD expected in May 2009

GPA: 3.855/4.33 (top five percent of class)

Honors and Awards

Santa Clara University School of Law IP Fellowship (2006-present)

Dean's List (2006-08)

ABA-BNA Award for Excellence In the Study of Intellectual Property Law (Spring 2008)

CALI Award for Excellence in IP Litigation Techniques (Spring 2008)

CALI Award for Excellence in Patent Prosecution (Spring 2008)

CALI Award for Excellence in Protection of IP (Spring 2008)

Witkin Award for Excellence in Mass Communication (Fall 2007)

CALI Award for Excellence in Advocacy (Fall 2007)

CALI Award for Excellence in Contracts (Spring 2007)

Witkin Award for Excellence in Property (Spring 2007)

Witkin Award for Excellence in Legal Analysis, Research and Writing, Section H (Spring 2007)

Selected to represent Santa Clara University in the Constance Baker Motley National Moot Court

Competition in Constitutional Law (Spring 2008) - advanced to quarter-final round

Selected to participate in oral arguments in Galloway Moot Court competition (Spring 2007)

Activities

Co-President, Santa Clara University Intellectual Property Association (2008-09)

Co-Vice President, Santa Clara University chapter of American Constitution Society (2008-09)

Vice President, Alumni Relations, Santa Clara University Intellectual Property Association (2007-08)

Associate, Santa Clara Computer and High Tech Law Journal (2007-08)

STANFORD UNIVERSITY (Stanford, CA)

Ph.D. in electrical engineering, 1996

Dissertation: *Discrete Multi-Tone-Based Communications in the Reverse Channel of Hybrid Fiber-Coax Networks*

Adviser: John M. Cioffi (<http://www.stanford.edu/group/cioffi>)

MSEE, 1993

Digital communications specialization

Honors and Awards

IBM Graduate Fellowship (1994-95)

National Science Foundation Graduate Fellowship (1991-94)

IEEE Communications Society Scholarship (1993)

UNIVERSITY OF DENVER (Denver, CO)

BSEE (*summa cum laude*), 1991

Communications specialization

Honors and Awards

Winner, Denver Section IEEE Student Paper Contest (1991)

University of Denver Pioneer Award (1991)

University of Denver Distinguished Senior Woman Award (1990)

Phi Beta Kappa (1989)

University of Denver Honors Scholarship (1986-91)

Colorado Scholars Scholarship (1987-91)

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Experience

HELLER EHRMAN, Menlo Park, CA (May-July 2008)

Summer Associate. IP litigation. Researched and drafted legal memoranda and court papers.

BLAKELY SOKOLOFF TAYLOR & ZAFMAN, Sunnyvale, CA (June-August 2007)

Summer Associate. Patent prosecution. Composed responses to United States Patent and Trademark Office office actions and wrote portions of patent applications, including claims.

PATENT AGENT (October 2006 - present)

United States Patent and Trademark Office registration number 59,374.

CONSULTANT (July 2004 - present)

Tasks have included assisting clients to determine and execute digital subscriber line (DSL) standardization and product strategies, writing simulations, generating and presenting technical tutorials, and helping with patent issues. Clients have included 2Wire, Inc., PMC-Sierra, Atheros Communications, and Beyer Law Group.

TEXAS INSTRUMENTS (TI) (formerly AMATI COMMUNICATIONS), San Jose, CA (January 1994-May 2004).

Lead xDSL Standards Strategist.

- Led TI's DSL standardization efforts, managed standards resources and budget, and communicated standards progress and status within TI.
- Directed standards activities of a team of 8-10 engineers.
- Worked with internal product and management teams and TI's customers to ensure alignment of standards strategy with business strategy and product development.
- Interfaced and negotiated with competitive and complementary companies to build support for TI's standards positions and proposals.
- Communicated, both internally and to customers, TI's DSL standards strategy and activities via periodic updates, including weekly reports and quarterly standards update teleconferences (internal) and customer presentations.
- Participated as a member of business unit patent committee and worked with TI legal department to ensure protection of intellectual property and to provide "translations" of technical issues when needed.

Senior Staff Engineer.

- Developed technical proposals for regional and international standards organizations, including ETSI TM6, IEEE 802.3ah (Ethernet in the first mile), ITU-T SG15/Q4, and T1E1.4 (now NIPP-NAI).
- Wrote and presented technical contributions at standards meetings and generated white papers, technical reports, chapters for technical books, and articles for external publications.
- Represented TI at ETSI TM6, IEEE 802.3ah, ITU-T SG15/Q4, and T1E1.4 standards meetings.
- Ran DSL system simulations.
- Made presentations at industry conferences and events.

Previous roles with Amati/TI were *Project Manager, ADSL over ISDN* (2000-01), *Project Manager, VDSL* (1999-2000), *Senior Staff Engineer* (1998-99), *Staff Engineer* (1997-98), *Senior Systems Engineer* (1996-97), *Consultant* (1994-96).

VITEL COMMUNICATIONS CORPORATION, Santa Clara, CA (August 1991-May 1992).

Member of telecommunications group. Worked on a team that developed a video telephony transceiver.

TEXACO TRADING AND TRANSPORTATION INCORPORATED, Denver, CO (April-August 1991).

Intern. Designed a system to detect interfaces between various petroleum product batches in a pipeline.

HEWLETT-PACKARD, Englewood, CO (June-September 1990).

Participant in SEED program.

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Patents

- A.J. Redfern, G. Ginis, F.A. Mujica, and K.S. Jacobsen. "Spectrally flexible band plans with reduced filtering requirements." U.S. Patent Number 7,342,937. March 2008.
- K.S. Jacobsen, M.D. Agah, and B.R. Wiese. "Method to mitigate effects of ISDN off/on transitions in ADSL." U.S. patent number 7,184,467. February 2007.
- J.M. Cioffi, J.A.C. Bingham, and K.S. Jacobsen. "Method and apparatus for coordinating multi-point to-point communications in a multi-tone data transmission system." U.S. patent number 7,110,370. September 2006.
- J.M. Cioffi, J.A.C. Bingham, and K.S. Jacobsen. "Method and apparatus for coordinating multi-point to-point communications in a multi-tone data transmission system." U.S. patent number 7,079,549. July 2006.
- J.M. Cioffi, J.A.C. Bingham, and K.S. Jacobsen. "Method and apparatus for coordinating multi-point to-point communications in a multi-tone data transmission system." U.S. patent number 7,068,678. June 2006.
- J.M. Cioffi, J.A.C. Bingham, and K.S. Jacobsen. "Method and apparatus for coordinating multi-point to-point communications in a multi-tone data transmission system." U.S. patent number 6,937,438. August 2005.
- K.S. Jacobsen, B. Wiese, and C. Milbrandt. "Upstream power back-off." U.S. patent number 6,922,448. July 2005.
- J.M. Cioffi, J.A.C. Bingham, and K.S. Jacobsen. "Method and apparatus for coordinating multi-point to-point communications in a multi-tone data transmission system." U.S. patent number 6,473,438. October 2002.
- B. Wiese, K.S. Jacobsen, N.P. Sands, and J. Chow. "Initializing communications in systems using multi-carrier modulation." U.S. patent number 6,434,119. August 2002.
- K.S. Jacobsen and B. Wiese. "A method to mitigate the near-far FEXT problem." U.S. patent number 6,205,220. March 2001.
- J.A.C. Bingham and K.S. Jacobsen. "Methods for coordinating upstream discrete multi-tone data transmissions." U.S. patent number 5,644,573. July 1997.

Publications

- *Implementation and Applications of DSL Technology* (Philip Golden, Herve Dedieu, and Krista S. Jacobsen, eds., Auerbach Publications, 2008).
 - Co-author of chapter 17, entitled "DSL Standardization," and author of the ADSL portion of that chapter.
- *Fundamentals of DSL Technology* (Philip Golden, Herve Dedieu, and Krista S. Jacobsen, eds., Auerbach Publications, 2006).
 - Author of chapter 7, entitled "Fundamentals of Multi-carrier Modulation."
- Author or co-author of two engineering journal papers, two technical magazine articles, more than twelve conference papers, and over 100 technical standards organization contributions.
- Author of the chapter entitled "Last Mile Copper Access" in *Broadband Last Mile Access Technologies for Multimedia Communications* (Nikil Jayant, ed., CRC Press, 2005).
- Author of the definition of "broadband communication" in *World Book Encyclopedia* (2003).
- Co-editor of June 2002 issue of *IEEE Journal on Selected Areas in Communications*.