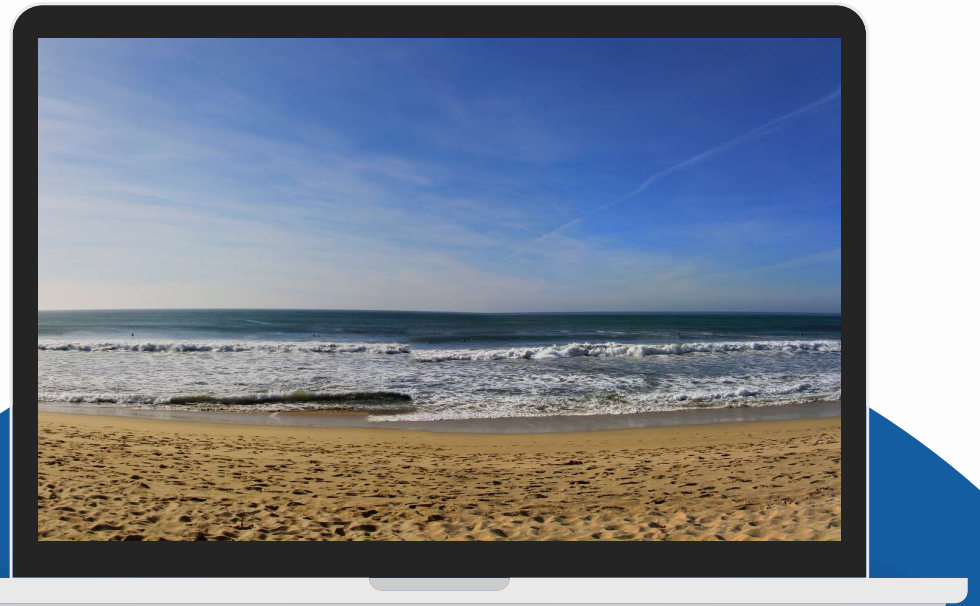


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*Intellectual Property Law*

# **HBW PATENT PRACTITIONERS**





# Who We Are

Haynes Beffel & Wolfeld LLP (HBW) is a leading Martindale Hubbell [AV-rated](#) law firm that was built upon the foundation of serving our clients by delivering the highest level of quality in patent legal counsel. We understand that each client has unique objectives and service needs. We are dedicated to continuously meeting and exceeding those expectations.

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Wolfeld LLP  
*Intellectual Property Law*

# Ernest J. Beffel

## Founder and Managing Partner

**B.S. in Industrial Engineering and Operations Research, University of Michigan**  
**J.D. Stanford Law School**

**Technical Expertise:** Ernie has prepared, and prosecuted patent applications directed to artificial intelligence, micro-lithography, cloud computing, network testing and security, and Web Services protocols (WSDL, UDDI), among others. He has extensive experience in freedom to operate and infringement analysis, as well as intellectual property rights (IPR) preparation.

**Business Applications:** His work encompasses business-oriented innovations in financial planning, inventory management, online auctions, banking, and infrastructure for business-to-business e-commerce.

**Targeted Advertising:** He has developed patents related to targeted advertising, focusing on query context and disambiguation, clustering and classification, and text and non-text search engines.

**Network Protocols:** His expertise extends to network protocols, including adapters, access points, and switches, along with advancements in compression, error correction, and signal processing.

**Automated Testing:** Ernie has contributed to automated testing of wired and wireless network components and telecommunications systems, as well as IC manufacturing processes, including micro-lithography and capital equipment for mask and IC production.

**Speaking Engagements:** He has been an AIPLA and PTO Partnership speaker on examiner interviews, the broadest reasonable interpretation of claims, and subject matter eligibility of AI/ML systems (Section 101/Alice).



**Email: [ebeffel@hmbay.com](mailto:ebeffel@hmbay.com)**

**Phone: 650-479-9242**

**<https://hmbay.com/our-team/ernest-j-beffel-jr/>**

# Mark A. Haynes

## Founder and Of Counsel

**B.S.E.E. University of Texas at Austin**  
**J.D. Stanford Law School**

**Intellectual Property Focus:** Mark's practice is dedicated to intellectual property counseling, primarily in patent prosecution and analysis for licensing, litigation, diligence investigations, and strategic planning.

**Client-Centric Approach:** With over 30 years of experience, Mark is known for his practical legal counsel, problem-solving skills, and focus on helping clients achieve their commercial objectives while being mindful of budgetary constraints.

**Technical Expertise:** His practice spans integrated circuits, communications, computer systems, medical devices, and more. Mark effectively navigates the unique challenges faced by both large corporations and emerging companies.

**Educational Background:** He graduated from Stanford Law School and holds a B.S.E.E. with Highest Honors from the University of Texas at Austin. Mark is licensed to practice in Texas and California and is registered with the U.S. Patent and Trademark Office.

**Professional Experience:** A founding partner of HBW, he previously led the Patent Prosecution Group at Wilson Sonsini Goodrich & Rosati and has experience as a patent attorney at IBM Corporation.

**Thought Leadership:** Mark is a charismatic speaker and thought innovator in IP law, having served on panels and authored articles, including a commentary for the Berkeley Technology Law Journal.



**Email:** [mhaynes@hmbay.com](mailto:mhaynes@hmbay.com)

**Phone:** 650-712-0340

<https://hmbay.com/our-team/mark-a-haynes/>



# Andrew L. Dunlap

**Partner**

**B.S.E.E. Kettering University (formerly General Motors Engineering and Management Institute), Flint, Michigan**

**J.D. Whittier Law School, Costa Mesa, California, magna cum laude**

**Areas of Practice:** Andrew has focused his practice on patent prosecution (utility and design), freedom to operate and infringement analysis and IPR preparation.

**Patent Preparation and Prosecution:** Andrew specializes in preparing and prosecuting patents for domestic and foreign clients across diverse technologies.

**Range of Technological Expertise:** His experience spans electrical and semiconductor technologies, software technologies, and mechanical devices and systems.

**Example Electrical Technologies:** He has worked with advanced technologies including microprocessors, computer memory and systems, electronic design automation (EDA), plasma and LCD display systems, image sensors, vehicle systems and digital and analog signal processing, and mobile devices.

**Example Mechanical Technologies:** Andrew has experience with lumber mills, medical devices, robotics, manufacturing, machining and packaging systems, advanced plumbing systems, machining systems, and optical systems.

**Example Software Technologies:** Andrew has contributed to innovations in collaboration systems, neural network technologies, autonomous shopping systems, voice recognition, linguistics, automotive technologies, database software, communications and telecommunications, gaming systems, gesture recognition, user interfaces, e-commerce, and blockchain.

**Adaptability and Insight:** His broad patent experience enables him to quickly adapt to new technology areas and provide valuable advice to clients.



**Email: [adunlap@hmbay.com](mailto:adunlap@hmbay.com)**

**Phone: 650-479-9264**

**<https://hmbay.com/our-team/andrew-l-dunlap/>**

# Paul A. Durdik

## Of Counsel

B.S. in Electrical Engineering, Case Western Reserve University  
J.D. Boston University

**Legal Representation:** Paul has extensive experience representing clients in legal matters related to medical devices, including implants and prostheses, as well as instrumentation such as cryogenic ablation and blood gas and glucose monitors.

**Robotics and Automation:** His expertise extends to robotics and factory floor automation, along with telecommunications, network, and computer hardware, including disk drives, pipeline processing, semiconductor memories, and semiconductor processing equipment.

**Software Innovations:** Paul has worked on a diverse range of software technologies, including neural networks, molecular structure modeling, combinatorial chemistry, bioinformatics, distributed digital identifiers, blockchain, operating systems, file systems, gesture recognition, and image processing.

**Telecommunications Expertise:** His telecommunications experience includes network switching, wireless networking, antennas, and packet network rate and flow control.

**Previous Roles:** He has held significant positions as the Director of Intellectual Property at Salesforce.com and Leap Motion, Inc., and previously worked as an engineer at IBM Corporation.



Email: [pdurdik@hmbay.com](mailto:pdurdik@hmbay.com)

Phone: 650-479-9245

<https://hmbay.com/our-team/paul-a-durdik/>

# Korbin Van Dyke

## Senior Patent Agent

M.S., EECS, UC Berkeley, Berkeley, CA  
B.S., EECS, UC Berkeley, Berkeley, CA

**Technical Expertise:** From contributing to the NMOS implementation of RISC-I at Berkeley to leading teams at VLSI Technology, NexGen, Chromatic/ATI, and Clearwater, his technical expertise spans the spectrum of microprocessor design, network processors, and complex instruction set architectures.

**Litigation and Licensing Support:** Serving as a technical expert in litigation projects, he has analyzed hundreds of patents, prior art, and products, providing critical insights to attorneys. Additionally, his involvement in licensing projects has successfully led to the negotiation and sale of a portfolio comprising over 100 microprocessor and related technology patents.

**Portfolio Evaluation/Analysis:** He has contributed to the evaluation of several portfolios, collectively analyzing thousands of microprocessor and related technology patents for large companies and Acacia Research.

**Patent Prosecution:** As a co-contributor, he has actively participated in the drafting and prosecution of patent applications for various companies, including a processor start-up, Macronix, Sharecare/DOCai, Illumina, and more.



Email: [kvandyke@hmbay.com](mailto:kvandyke@hmbay.com)

Phone: 650-479-9263

<https://hmbay.com/korbin-van-dyke/>

# Jason Liao

## Patent Agent

B.S.C.S. Case Western Reserve, Cleveland, OH  
Maurer School of Law, Bloomington, IN

**Patent Application Drafting and Prosecution:** While working at Haynes, Beffel & Wolfeld, Jason has focused on drafting and prosecuting patent applications in various technology areas, including software and mechanical arts.

**Experience at the USPTO:** Before joining Haynes, Beffel & Wolfeld, Jason contributed significantly during his 14-year tenure at the United States Patent and Trademark Office (USPTO).

**Patent Examination Expertise:** His expertise was honed as a Patent Examiner in the Databases Workgroup, where he served as a Primary Examiner for nearly a decade, examining patents and ensuring compliance with patentability standards.

**Training and Mentorship:** Jason's responsibilities included training and mentoring fellow examiners, demonstrating his leadership skills by providing guidance in crafting effective office actions and supporting the professional development of his colleagues.



Email: [jliao@hmbay.com](mailto:jliao@hmbay.com)

Phone: 650-479-9256

<https://hmbay.com/jason-liao/>



# Hannah Powell, PhD

## Patent Engineer

**B.S. Biochemistry & Mathematics, University of Iowa**

**Ph.D. Biomedical Sciences, Structural and Quantitative Biology, Wright State University, Fairborn, OH**

**J.D. The Ohio State University (expected 2026)**

**Artificial Intelligence Specialist:** Dr. Hannah Powell is an Artificial Intelligence technical specialist at Haynes, Beffel & Wolfeld, focusing on patent law in emerging technologies.

**Patent Application Drafting and Prosecution:** She has been involved in the drafting and prosecution of applications in various technology areas, including software, mechanical devices, and design patents.

**Biomedical Engineering Experience:** Prior to transitioning into patent law, Hannah spent over a decade as a biomedical engineer in both academia and the public sector, gaining valuable insights into the intersection of engineering and medicine.

**Research and Technology Expertise:** Hannah has first-hand research experience in various computer engineering applications in medicine, working with technologies such as computational modeling and simulation (CM&S), AI, and blockchain.

**Academic Contributions:** She has published articles in leading academic journals, presented her work at several international conferences, and is a contributing author to academic textbooks in pharmacology and toxicology.

**Speaking Engagements:** She has been an AIPLA and PTO Partnership speaker on Artificial Intelligence and Subject Matter Eligibility Under §101: Trends and Best Practices.



**Email:** [hpowell@hmbay.com](mailto:hpowell@hmbay.com)

**Phone:** 650-479-9265

<https://hmbay.com/hannah-powell/>

# Franklin Schellenberg, PhD

**Patent Agent**

**B.A. Physics/Mathematics, Kalamazoo College, Kalamazoo, MI**  
**M.S. Applied Physics, Stanford University**  
**Ph.D. Applied Physics, Stanford University**

**Academic Background:** Franklin holds a Ph.D. in Applied Physics from Stanford University, where he explored nonlinear optical properties of silicon backbone polymers.

**Research Experience:** He has spent over a decade at IBM Research and HP Labs conducting R&D in lasers, photonics, and optical lithography. He is the inventor on over 30 issued patents and has written over 80 peer-reviewed technical articles.

**Project Management:** In the 1990s, he served as an HP assignee to SEMATECH, managing projects focused on imaging resolution enhancement for semiconductor lithography and funding startups to achieve project goals.

**Industry Transition:** Franklin joined one of the software startups he funded, OPC Technologies, which was successfully acquired by EDA company Mentor Graphics in 1998. He then passed the patent bar in 2000, and spent a decade in the EDA industry, focusing on strategic marketing and serving as a patent agent, managing patent filings for the Calibre product line.

**Patent Agent Work:** Since 2009, he has worked as a patent agent, assisting individual and startup clients in Silicon Valley, with a focus on x-ray sources and spectroscopy, semiconductor equipment, robotics, and self-driving vehicles.



**Email: [fschellenberg@hmbay.com](mailto:fschellenberg@hmbay.com)**

**Phone: 650-479-9243**

**<https://hmbay.com/franklin-schellenberg/>**




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# THANK YOU!



## Haynes Beffel & Wolfeld LLP

Intellectual Property Law

-  650-712-0340
-  [www.hmbay.com](http://www.hmbay.com)
-  60 Stone Pine Rd., Suite 200  
Half Moon Bay, CA, U.S.A. 94019

