XIN SHAO

Patent Attorney | **Anderswerden PLLC**

AI & Machine Learning · Computer Vision & Image Processing · Natural Language Processing · Cloud Computing & Infrastructure
Robotics & Embodied AI · Autonomous Driving · Computational Biology

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OVERVIEW

Xin Shao is a member and patent attorney at Anderswerden PLLC, where Xin leads patent prosecution, freedom-to-operate, and infringement and validity matters for technology companies and research institutions building AI-driven products, from perception and language models to cloud infrastructure, robotics, autonomous driving, and computational biology.

Before joining Anderswerden, Xin practiced at Am Law 100 and Am Law 200 firms and at an IP boutique, representing top-tier technology companies and leading research universities. On those matters Xin served as the attorney responsible for the technical substance of each application, taking inventions from inventor interviews and claim strategy through specification drafting, Office Action responses, and allowance.

Representative clients include a global leader in GPU and accelerated computing, a leading creative-software company, multinational consumer-electronics and semiconductor manufacturers, an audio-technology innovator, and top-tier research universities developing AI for computational biology and medical imaging. Xin also advises on Amazon listing disputes involving patent, trademark, and copyright claims.

Trained as a mathematician and certified by AWS in machine learning and cloud architecture, Xin engages inventors at the level of model architectures, training pipelines, and system design. Xin writes on AI inventorship and AI copyright for ABA Landslide and Law360.

AREAS OF PRACTICE

Patent Prosecution & Portfolio Strategy
Invention Harvesting
Freedom-to-Operate & Clearance
Infringement & Validity Analysis
Amazon Listing Disputes

BAR ADMISSIONS

New York
Wisconsin
U.S. Patent and Trademark Office
Reg. No. 81,886

EDUCATION

J.D., University of Wisconsin Law School
Samson Fellowship; Moot Court Board

M.S., Mathematics, New York University Tandon School of Engineering

B.S., Mathematics, Anhui University

INDUSTRIES

Software, AI & Cloud Services
Robotics & Automotive
Semiconductors & Electronics

TECHNOLOGY FOCUS

AI & Machine Learning	Neural networks (CNN, RNN, Transformer), diffusion models, GANs, GPU and AI accelerators
Computer Vision & Image Processing	Image generation and editing, object detection, image enhancement, video analysis
Natural Language Processing	Large language models, retrieval-augmented generation (RAG), agentic AI, AI audio
Cloud Computing & Infrastructure	Serverless computing, databases, cloud security, APIs, parallel computing (CUDA)
Robotics & Embodied AI	Perception and sensing, motion planning and control, learning-based manipulation
Autonomous Driving	Sensor fusion (camera, radar, LiDAR), driver assistance, in-vehicle AI compute and SoC
Computational Biology	AI-driven drug discovery, computational-biology platforms, medical image analysis

SELECTED PUBLICATIONS

- "A Dual-System Approach for Integrating AI Inventorship into Law," *ABA Landslide*, October 2024
- "Deploying Analogies to Explore AI Copyright Questions," *Law360 Expert Analysis*, November 2023
- "Risks of Oversimplifying Claimed Inventions in AI and Beyond," *Law360 Expert Analysis*, October 2023

PRIOR LAW FIRMS

Davis Wright Tremaine LLP
New York · 2025 – 2026

Michael Best & Friedrich LLP
Washington, D.C. · 2024 – 2025

F. Chau & Associates, LLC
New York · 2021 – 2024

REPRESENTATIVE CLIENTS

CLIENT	CLIENT TYPE	TECHNOLOGY
Global leader in GPU and accelerated computing	Top-tier technology company	GPU accelerator architectures; AI/ML hardware and software systems; SoC and parallel computing
Leading creative and digital-media software company	Top-tier technology company	Generative AI, image processing, NLP and LLMs, cloud and serverless computing
Multinational consumer-electronics and semiconductor manufacturer	Global electronics conglomerate	Semiconductor devices, memory devices, display panels, circuit design, consumer electronics
Global electronics and semiconductor company	Global electronics conglomerate	Semiconductor technologies (portfolio management)
Audio and imaging technology innovator	Technology licensing company	AI-enhanced audio processing
Two top-tier private research universities (R1, with academic medical centers)	Research university	Computational biology, AI-driven drug discovery, medical image analysis
Developer of connected sensing devices	Technology company	Freedom-to-operate for sensing hardware, detection algorithms, and remote monitoring

REPRESENTATIVE MATTERS

Client identities are withheld to preserve confidentiality.

Patent Prosecution & Portfolio Management

- **Accelerated computing.** Served as prosecution counsel on U.S. applications for a global GPU and accelerated-computing leader, covering GPU accelerator architectures and integrated AI/ML hardware–software systems.
- **Backlog recovery.** Took over a group of complex, backlogged applications for a technology client that had been outstanding for more than five months; drove two of them from stalled status to filing within two weeks.
- **Academic AI and life sciences.** Prosecuted applications for two top-tier research universities on computational-biology platforms, AI-driven drug discovery, and medical-image analysis, turning faculty research into commercially relevant claims.
- **AI-enhanced audio.** Prosecuted applications for an audio and imaging technology innovator directed to machine-learning-based audio processing.
- **Semiconductor portfolio.** Managed a semiconductor patent portfolio for a global electronics company, coordinating prosecution strategy across its pending matters.
- **Consumer electronics.** Prosecuted applications for a multinational electronics manufacturer covering semiconductor and memory devices, display panels, circuit design, and consumer-electronics products.

Invention Harvesting

- **Generative-AI launch cycles.** Ran annual high-volume harvesting programs for a leading creative-software company around its 2022 and 2023 flagship generative-AI launches, converting 10+ disclosures per program into filed applications within four weeks.

Patent Eligibility Strategy

- **§ 101 for AI and software.** Developed strategies for overcoming § 101 eligibility rejections in AI, machine-learning, and cloud-computing applications by anchoring claims in concrete technical improvements.

Freedom-to-Operate, Infringement & Validity

- **Digital-device FTO.** Conducted freedom-to-operate analyses to assess litigation risk for digital devices incorporating sensing hardware, detection algorithms, and remote-monitoring functionality.
- **Risk mapping.** Screened third-party patents feature by feature, mapping claims element by element to rank litigation exposure.
- **Launch guidance.** Delivered risk-tiered findings with design-around and mitigation options to inform product-launch decisions.
- **Enforcement support.** Prepared infringement and validity analyses supporting clients' IP enforcement decisions.