

Chelsea McElveen

Technical diligence and IP strategy for venture capital.

I evaluate the technical and intellectual property foundations of companies you are diligencing. Patent claims that sound defensible often are not. Compression ratios that sound strong often use flattering benchmarks. Security postures that look mature often hide architectural debt. I read all three at the depth of someone who has shipped them, and I write the memo a partner can act on.

109

GLOBAL PATENTS
3 FAMILIES, 2017 PRIORITY

2017

EARLIEST PRIORITY
FIRST MOVER IN FHC

8+ YRS

ENTERPRISE SECURITY
FORTUNE 500, ZERO
INCIDENTS

15.5x

PEAK COMPRESSION
LOSSLESS, 4.9 GB/s DECOMP

ABOUT

Co-Founder and CTO of LogNovations Holdings, a patent licensing company with a foundational portfolio in compression and cryptography. 109 patents across three families with a 2017 earliest priority date, spanning grants, allowances, and pending applications across the United States, Europe, Japan, Korea, and China. Active licensing track with Everpure (formerly Pure Storage). An independent Quality of Intellectual Property report has validated the portfolio.

TECHNICAL DOMAINS

Compression and data efficiency. Benchmark methodology, lossless vs. lossy tradeoffs, homomorphic computation on compressed data, read methodology behind claimed ratios.

Cryptography and confidential computing. Homomorphic encryption, post-quantum, one-time-pad hybrids, key management architecture, side-channel surface.

AI infrastructure and storage. KV cache, checkpoint efficiency, inference economics, storage tiering, hyperscaler economics.

Enterprise security. Cloud posture, threat modeling, secure SDLC, incident-response maturity, Fortune 500 production experience. USPTO, EPO, and JPO prosecution strategy; 3GPP NTN roadmap; freedom-to-operate analysis.

SELECTED EXPERIENCE

LogNovations Holdings LLC (Co-Founder, CTO). Built and manage a patent portfolio in Fully Homomorphic Compression: 109 patents across three families spanning grants, allowances, and pending applications across nine jurisdictions. Forward citations include two granted Oracle patents on different layers of Oracle’s database stack, plus Intertrust, Alibaba, ZTE, and the Bank of China. Active multi-component licensing negotiation with Everpure.

Fortune 100 private bank and leading SIEM (Enterprise Security Architect). Eight-plus years serving Fortune 500 clients. Zero security incidents.

Independent work. Built an end-to-end encrypted CMS for investigative journalists now operating eight years without incident. Original research on compressed-domain spectral analysis and the Riemann zeta function’s implications for prime factorization.

ENGAGEMENT MENU

Service	Commitment	Investment
Retained technical and IP advisor	10–15 hrs/month	\$12,000/month
Deep technical diligence (single deal)	20–40 hrs/deal	\$30,000 flat
IP portfolio audit	15–25 hrs/audit	\$20,000–\$25,000
On-call partner consultation	Hourly	\$1,500/hour
Portfolio CTO advisory	4–8 hrs/month	\$5,000/mo + equity

All engagements carve out LogNovations intellectual property. Three-month minimum on retainers; 30-day exit.

IDEAL FOR

Deep tech, AI infrastructure, cryptography, data efficiency, cybersecurity, and growth-stage secondary funds diligencing technical moats and IP positions. Works well as a second pair of eyes for generalist investment teams.