

Istvan Jonyer, Ph.D.

San Francisco, CA • (415) 816-7561 • istvan@sidespingroup.com

Expert witness, scientist, engineer, entrepreneur, and venture capitalist with technical coverage in machine learning, artificial intelligence, autonomous technologies, augmented reality, virtual reality, smart TVs, media delivery, telecommunications and wireless technologies, as well as high-performance computing. Experience as assistant professor in machine learning, software engineer at Nortel Networks, 2-time technical founder of deep tech startups. Venture capitalist with three different funds. Head of device partnerships with global consumer electronics giants at Google.

EDUCATION

PH.D. IN COMPUTER SCIENCE AND ENGINEERING, DISSERTATION IN MACHINE LEARNING THE UNIVERSITY OF TEXAS AT ARLINGTON	AUG 2003
M.S. IN COMPUTER SCIENCE AND ENGINEERING THE UNIVERSITY OF TEXAS AT ARLINGTON	MAY 2000
B.S. IN COMPUTER SCIENCE AND ENGINEERING WITH HIGH HONORS THE UNIVERSITY OF TEXAS AT ARLINGTON	MAY 1999
MBA, FOCUS ON VENTURE CAPITAL AND ENTREPRENEURSHIP CARNEGIE MELLON UNIVERSITY, TEPPER SCHOOL OF BUSINESS	MAY 2010

PROFESSIONAL EXPERIENCE

EXPERT WITNESS, SAN FRANCISCO AND LOS ANGELES, CA JAN 2019 – PRESENT
Consulting on IP infringement, validity, IPR, and breach of contract cases.

- **Universal Electronics Inc. v. Roku, Inc. – Smart TV – Patent Infringement:** Source code analyst for the plaintiff on Smart TV technology IP infringement involving 9 patents in 5 families, including Smart TV and mobile app user interfaces, user experience, universal remote control setup and configuration, mobile and peer-to-peer communications, embedded systems and logging and debugging systems. Technologies included C/C++, Embedded Linux, Android, iOS, Qt, IR signaling, Ti microcontroller, P2P Wi-Fi.
- **Vargas et al. v. Facebook, Inc. class action – Advertising Technology Review – Fair Housing Act Discrimination complaint:** Testifying expert for the plaintiffs. Creating strategy to establish that Facebook's advertising tools allow for discriminatory campaigns.
- **Olin et al. v. Facebook, Inc. class action – Messenger Privacy Review – Security and Privacy complaint:** Expert witness for the plaintiffs. Reviewing the Facebook Messenger application for alleged security and privacy violations.
- **Tri Star Sports and Entertainment Group, Inc. v Weezlabs, Inc. – Breach of Contract – Bespoke Software Development:** Testifying expert to the defendant (and in a related cross-complaint, plaintiff). Retained to provide all expert witness services, including analysis, report, deposition, and trial testimony, if required.
- **IPR – Unified Patents:** Testifying expert witness in the United States Patent and Trademark Office proceeding to challenge the validity of an issued patent in the user-generated content space.
- **Mon Cheri Bridals, LLC and Maggie Sottero Designs, LLC v. Cloudflare, Inc. – Copyright Infringement, DMCA:** Testifying expert witness in contributory copyright infringement against the CDN and security provider, Cloudflare.
- **Tabatabai v. Tabatabai – Enterprise valuation:** Testifying expert witness, providing an explanation of enterprise valuation methodology best practices to the court.
- **Large-scale patent portfolio evaluation and assertability assessment:** Leading a team of four experts in evaluating a 2,000-patent portfolio of cybersecurity patents. Methodology includes in-house algorithmic metadata analysis and manual expert review of specific patents.
- **Patent evaluation and assertability assessment:** Distributed systems and virtualization technology assessment against a multi-national video streaming provider to evaluate a family of patents against their product portfolio, especially in the areas of caching, CDN, software testing, and cybersecurity.
- **Berkshire Hathaway HomeServices – Technology acquisition due diligence:** Berkshire Hathaway HomeServices was interested in verifying their technology roadmap and evaluating potential technology acquisitions to complement their existing technology stack.
- **Technology due diligence – Expeditors, Inc.:** Providing technology due diligence and evaluation of a startup that Expeditors was considering acquiring.
- **Expert Witness training:** Advanced testifying skills, offered by SEAK, the expert witness training company.

BUSINESS STRATEGY CONSULTANT, SAN FRANCISCO, CA SEP 2013 – PRESENT
Available to consult on technology, product, strategy, and leadership.

- **Patented technology licensing:** Advising Stanford's Office of Technology Licensing (OTL) and their student teams on identifying marketable patent portfolios and creating supporting marketing materials.
- **NimbleVR:** New product strategy to the struggling hand-gesture recognition startup. Recommended pivot to a camera-based immersive VR controller. The company was acquired by *Oculus (Facebook)* 4 months later.

- **MediaMark:** Provided strategic direction to the media analytics startup. Recommended pivoting from passive theater-goer measurement to reward-based engagement, resulting in a well-defined product, and commitments from major studios.
- **Rescale:** Opened up the animation and rendering space with partners like *Pixar*, *NVIDIA*, *Autodesk* and *Adobe*.
- **Near-Me:** Product strategy and engineering restructuring.
- **Pro Bono Mentoring:** Advising startups at Stanford University Innovation Farm, Stanford Venture Studio, ex-Google network, and other early stage startups. Invited speaker at various startup accelerators, Stanford, and Carnegie Mellon University.

PRINCIPAL, NEXSTAR PARTNERS, LLC, SAN FRANCISCO, CA

MAR 2015 – NOV 2018

\$100M early growth venture capital fund, which lost its single LP investor in November, 2018.

- **Area expert** in Machine Learning and other subfields of AI, such as Deep Learning, Neural Networks, Autonomous Technologies (including sensing technologies, like LIDAR, radar, etc.), as well as Smart TV, Media Delivery, Augmented Reality, Virtual Reality, Telecommunications and Wireless Infrastructure technologies.
- **Focus:** Patentable technology differentiation (fund's LP was major patent licensing entity, with frequent dialogue around patent portfolios and reviews)

FOUNDER, FANTASY BRAIN, INC., SAN FRANCISCO, CA

FEB 2012 – SEP 2013

A big data analytics startup in the fantasy sports space.

- **Algorithms:** Invented and implemented the Fantasy IQ big-data algorithms.
- **Positioning:** Developed positioning as the 'Fantasy IQ vendor', to emphasize the value to potential acquirers as complementary to their existing audience, leading to acquisition interest from *Yahoo* and *CBS*, and partnership with the *NFL*.
- **Technical Leadership:** Led technical execution with a team of 2 local and 5 offshore engineers and designers to ship the product 6 weeks prior to hard launch deadline (start of football season), through a 4-month idea-to-launch engineering effort.
- **Engineering:** Architected and wrote most the code base (Ruby on Rails, Postgres, Solr, Heroku, AWS, etc.).

GOOGLE TV GLOBAL HEAD OF DEVICE PARTNERSHIPS, GOOGLE INC., MOUNTAIN VIEW, CA

AUG 2010 – FEB 2012

Chromecast's predecessor, Google TV was an Android-based Smart TV platform launched in multiple form factors, including TV sets, Blue-ray players and companion boxes, with device OEMs including Sony, LG and Vizio.

- **Awards:** Google TV Hall of Fame, Outstanding Leadership (by VP), Operating Committee award (team), Peer Award.
- **Partnerships:** Developed high-level product strategy with launch partner leadership at the CEO, GM, VP and division head level. Drove and executed partnership strategy with Sony, LG, Intel, Marvell, MediaTek and others to shape the next generation TV experience and ecosystems.
- **Cross-functional leadership:** Led team of technical account managers, software engineers and technical writers in Mountain View and Seoul, South Korea through two successful product launches with OEM partners *Sony*, *Logitech*, *Vizio* and *LG*.
- **Scaling Vertical:** Architected a scalable, light-touch device launch process, from partner on-boarding through technical execution and final launch, enabling 10+ SOC and OEM partners to launch devices largely independently from Google, supported by only 3 technical account managers. (Resulted in Outstanding Leadership award.)
- **Product leadership:** Owned the Google TV requirements document and ensured that our partners complied with our product vision. Owned the remote-control definition and approval, which was the main interactive UX component.
- **Leadership:** Recognized and resolved major legal faux pas with GTV's state of 3rd party software licensing that left Google exposed to major liability. Led negotiations to resolve gaps in licensing, resulting in the *Google TV Hall of Fame* award, and being a sought-after expert within Google for structuring external software licensing agreements.
- **Team building:** Grew team from 2 to 10 reports across Mountain View and Seoul, S. Korea.

SENIOR ASSOCIATE, PITTSBURGH EQUITY PARTNERS, LLC, PITTSBURGH, PA

SEP 2008 – AUG 2010

Early-stage venture capital firm

- **Due Diligence:** Technical deep dives on over 30 companies. Developed the firm's investment scorecard, promoting a disciplined deal evaluation framework.
- **Sourcing:** Successfully generated deal flow by developing relationships with the *CMU Entertainment Technology Center* and *Center for Entrepreneurship*, *Adams Capital*, *Draper Triangle Ventures*, *BlueTree Angels* and others.

SUMMER ASSOCIATE, NEW VENTURE PARTNERS, LLC, MURRAY HILL, NJ

SUMMER, 2009

Global, early-stage venture capital firm with \$750M AUM, specializing in corporate spinouts

- **Technical diligence:** Opportunities with NEC Research (machine learning), OKI Data (video conferencing), NXP Software (interactive ad-tech).
- **Patent Valuation:** Analyzed the impact of intellectual property on the success of early stage investments based on self-collected data, to help focus subsequent due diligence efforts and appropriately value patents as part of deal flow.
- **Portfolio support:** Semiconductor manufacturer, EverSpin (spinout from Freescale Semiconductor), needed updated financial projections based on numbers deeply rooted in their manufacturing operations.
- **Market Research:** Mapped the competitive landscape and future direction of the Videoconferencing industry by comprehensive primary and secondary research, correctly identifying rising stars and technology trends.

- **Sourcing:** Generated deal flow from academia (CMU, OSU, UTA, NYU, WSU), research labs (Xerox PARC, NEC, IBM Watson, Sandia NL) and tech giants via my MBA, engineering, scientific and VC networks.
- **Positioning:** Created new business strategy for *PowerCloud Systems*, pivoting the company's cloud-based router configuration technology to the SMB space, resulting in a \$3.2M round of financing, saving the company from bankruptcy. The company was eventually acquired by Comcast.

FOUNDER AND CEO, KDRSEARCH, INC., TULSA, OK

2007 – 2008

Stock option search engine with the widest array of search options in the industry at a significantly lower price than the market leader.

- Identified opportunity, created and prioritized feature set and fully implemented the back-end architecture.
- Developed and closed partnership with the *Snider Financial Network* to provide options data to their customers.

ASSISTANT PROFESSOR OF COMPUTER SCIENCE, OKLAHOMA STATE UNIVERSITY

SEP 2003 – SEP 2008

Published thought leader with research focusing on various machine learning approaches, including graph mining, genetic programming and neural networks.

- **Awards:** Best Paper Award, second place, Florida International Conference for Artificial Intelligence, 2003.
- **Research focus:** Machine learning (Graph-based Data Mining, Social Network Analysis, Genetic Programming).
- **Parallel computing:** Created a POSIX-thread implementation for Windows, which would make ANSI-standard multi-threaded C/C++ code source-code compatible with Windows.
- **Founded** the OSU Supercomputing Center, the largest such facility at OSU, supporting research in multiple departments.
- **Published** and presented at over 20 international conferences and workshops.
- **Funding** by the National Science Foundation.
- **Taught** 9 courses, both graduate and undergrad (e.g., Artificial Intelligence, Theoretical foundations, Advanced algorithms)

SOFTWARE ENGINEER, NORTEL NETWORKS, INC., RICHARDSON, TX

JUN 2000 – JUN 2003

A multinational telecommunications equipment manufacturer with \$40bn in revenues in 2000.

- **Designed** key features of the *Sprint Vision* 1st generation 3G mobile Internet packet data switching node (PDSN).
- **Implemented** the Open Radio Protocol (Open-RP) for the *Shasta Networks* PDSN (C and VxWorks).
- **Identified** and implemented performance optimizations that resulted in a 20% increase in transmission speed.