

Professional Summary

Innovative technology executive with 25+ years of pioneering experience in MEMS, inertial navigation, wireless networks, and photonic sensing systems. Co-founder of Crossbow Technology, leading it from startup to a successful acquisition by Moog Inc. Co-Founder and CTO of ANELLO Photonics and creator of GEODNET, a decentralized GNSS reference station network. Passionate about building teams and scalable systems. Holds 9 issued patents and actively invests in next-gen tech startups.

Professional Experience

Project Creator | GEODNET Foundation | Sep 2021 – Present Project Creator

- Founded global, decentralized GNSS network leveraging blockchain technology.
- Enables secure, scalable Earth observation through community-driven infrastructure.

Chief Technology Officer | ANELLO Photonics, Santa Clara County, CA | Feb 2020 – Feb 2025

Chief Technology Officer

- Inventor of SiPhOG™ (Silicon Photonics Optical Gyroscope).
- Leading development of precision photonic-based inertial systems.

Angel Investor | Band of Angels & Sand Hill Angels | Jun 2015 – Present Angel Investor

- Backing startups in IoT, AI, edge computing, and advanced sensing.
- Focus areas: drones, cloud analytics, DSP, wireless systems.

Technical & Business Consultant | SunSkyStar, San Francisco Bay Area | Jan 2014 – Feb 2020

Technical & Business Consultant

- Consulting on inertial navigation, SLAM, GPS+LIDAR integration, and manufacturing scale-up.
- Built AWS-based backends using SQL/NoSQL and machine learning for sensor and social data.

Chief Technology Officer | ACEINNA, Bay Area, CA | Jan 2018 – Jan 2020 Chief Technology Officer

- Led creation of OpenIMU: a low-cost, open-source inertial nav platform for autonomy.
- Drove adoption in drones, robotics, agriculture, and automotive industries.

Advisor & GM Roles | Moog Inc. | Feb 2014 – Dec 2015 | May 2011 – Feb 2014 Advisor & GM Roles

- Led Navigation, Guidance, and Sensors business post-acquisition of Crossbow.

- Focused on MEMS inertial navigation, real-time tracking, and defense applications.

Co-Founder, President & CEO | Crossbow Technology | Aug 1995 – May 2011 Co-Founder, President & CEO

- Bootstrapped and grew company to \$150M+ revenue; sold product lines to MEMSIC and company to Moog.
- Developed FAA-certified MEMS AHRS system, award-winning wireless sensor networks, and military UAV tech.
- Raised venture capital from Cisco, Intel, and Paladin Capital; over 185,000 UAV flight hours logged.

Board Member | Crossbow Japan | Jan 2005 – Mar 2011 Board Member

- Supported Japanese aerospace and energy markets with sensor and wireless products.
- Profitable since inception.

Education

University of California, Berkeley Master of Science in Electrical Engineering (MSEE), 1992 – 1995

Patents

- 22 U.S. Patents Issued
- 2 Patents Pending

(Full list available upon request)

Technical Skills

- Sensors & Navigation: MEMS, Inertial Measurement Units (IMUs), GNSS/INS, SIPHOG, Wireless Sensor Networks, LIDAR/SLAM, UAVs, Photonics, Real-time Tracking
- Software & Architecture: Embedded Systems, Signal Processing, Visual Odometry, FPGA, AWS (SQL/NoSQL), Mesh Networking, Digital Signal Processors, PCB Design, Hardware Integration
- Leadership & Product Strategy: Startups, Product Lifecycle Management, Engineering Management, Business Development, System Design, Technical Team Building, Strategic Partnerships