

**Proven Vice President: Equity Electronic Trading, Fintech, Bitcoin, Blockchain, System Architecture/Infrastructure, DevOp**

Self-directed and driven technology executive with comprehensive accomplishments leading financial trading architecture, software development, DevOps, Fintech, project management, and 100+ cross-functional teams to achieve goals. An innovative thinker with strong financial services, digital asset, and emerging technology acumen. Demonstrated success in developing and executing plans in complex, fast-paced, regulated industries. Recognized for implementing project management through analysis of the details to ensure project delivery, quality control, and legacy system transformation. Highly organized, creative problem-solver who excels at guiding teams through challenging projects. Expertise includes managing multimillion-dollar contracts, budgets, product development, and advising C-level executives.

• Digital Asset, Electronic Trading • Bitcoin, Cryptocurrency Mining • Blockchain Enterprise Architecture • FIX Protocol • Financial Order Management, Market Data, Messaging • Colocation Infrastructure • High Performance Computing • C/C++ • Exchange Connectivity • Vendor, Production Management • Matching Engine • Financial Services • FinTech • Trade Systems • Software Development Life Cycle SDLC • Technology Integration • Compliance • Project, People, Vendor Management

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**PROFESSIONAL EXPERIENCE**

**Fidelity Investments, Boston, MA**

**2001-Present**

*A financial services corporation providing asset management services with \$3T in revenue and 50,000 employees.*

**Vice President, Fidelity Center for Applied Technology, 2018-Present**

- Oversee 20+ software developers, hardware engineers, DevOps, and project managers creating an electronic digital asset exchange for bitcoin and equities, leveraging the blockchain.
- Managed, designed, and executed collocated AI-enabled equity trading platform leveraging best-in-class networks, switching, servers, and FPGA hardware for decision processing, trade execution, and delivery of market data.
- Enable institutional investors to get the best deal buying or selling bitcoin from over-the-counter (OTC) trading desks.
- Empower Fidelity Digital Assets to grow clients, such as hedge funds, family offices, investment advisors, and pension funds.

**Architect, Electronic Trading, Fidelity Capital Markets, 2012-2018**

- Created software and infrastructure architecture for the high frequency, low latency trading platform proximity collocated with the major matching engines, dark pools, and public exchanges.
- Empowered brokers to react to market events faster than the competition, by a few milliseconds, with a goal of increasing the profitability of trades by developing proprietary algorithmic trading.
- Managed a \$10M budget for building tech platforms, discretionary tools, systems, servers, software, and service providers.

**Chief Architect, Colt Technology Services, Hong Kong, 2011-2012**

- Transferred by Fidelity to their Colt subsidiary to lead the acquisition and integration of Market Prizm, a low-latency market data service providing feeds for equities, derivatives, commodities, and 50 foreign exchanges FX and liquidity venues.
- Managed 50 developers and engineers in building next-generation financial market data technology from sources such as stock exchange feeds, brokers dealer desks, or SEC regulatory filings.
- Incorporate pre-trade data such as bid/ask data necessary to price assets and post-trade data such as the last trade price.

**Director, Emerging Technology Research, Center for Applied Technology, 2008-2011**

- Led the Center for Applied Technology, Fidelity's advanced R&D technology group responsible for researching, reporting, and piloting emerging technology that can be leveraged throughout the enterprise.
- Designed and implemented successful projects, including hardware-accelerated market data, mobile phone applications, and next-generation computer platform using cloud and virtualization.
- Drove innovative change across the enterprise by presenting solutions and white papers to senior management, divisional President's and the Chairman of the board.

**Specialist, Technology Development, 2001-2008**

- Senior software engineer and architect for Fidelity Investments' Active Trader Pro platform.
- Retained to develop direct trading components, streaming market data adapters, and overall technical architecture.

**Technology Consultant, Boston, MA**

**1990-2000**

- Managed technology projects for Thomson Financial, Iron Mountain, UPS, Reuters, ProCD, ValueQuest, CEG Systems, and RemRoll Systems.
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**EDUCATION**

**MS, Master of Science, Science Technology Leadership, Brown University, 2018**

**BA, Bachelor of Arts, Psychology, Boston University, 1988**

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**PATENTS**

Generating and Deploying Customized Software Containers, U.S. Patent 10,628,599

Peer-to-Peer Decentralized Distributed Data Structure and Token Exchange Apparatuses, Methods Systems, U.S. Patent 16,389,875