

John Cavanaugh

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EXECUTIVE SUMMARY

John has 35+ progressive years of successful management (BSEE, MBA, ITIL, CISSP) in client expectation management, technology (Machine Learning/AI, data on blockchain and databases, digital transformation, and security compliance) and business architecture spanning manufacturing, supply chain, financials and government (business process, data/applications, IT architecture and engineering, and personnel outsourcing/insourcing).

John's clients have received repeatable success in achieving cultural change from concept to operations, acceptance of business, technology solutions and exacting business profit. Seeking organizations investing in new technology opportunities (Digital Business -Technology Application/Infrastructure Architecture, Workflow Optimization, and Security Risk Analysis (Dodd Frank, Basel II, Smart Grid, FISMA), Secured Collaboration, and Cyber Security (ISO/27001, NIST and private standards) that will dramatically improve the business bottom line. Extensive experience with strategic planning of risk reduction/cost savings opportunities across business units worldwide, as well as liaising with IT in development and delivery of these solutions.

Architected Business Risk policy/process/procedure methodologies to support NERC Critical Infrastructure Protection (CIP) cyber security improvements for the Utility Industry (5 tier architecture, SCADA physical controls, Physical and Electronic Security Perimeters access control), Business Continuity Planning (BCP) and security risk analysis.

Current project activities - reduction of process complexity and cost using Robotic Process Automation/Machine Learning/Artificial Intelligence (RPA/ML/AI) solutions and Data Architecture (Blockchain/Cloud/on premise architecture) and High Performance Compute Architectures. Secure Mobile/IoT security improvement using sensor data and unsupervised machine learning (US Patents 10185835 & 9721111). Knowledge areas in business case definition, program governance, process/service definition and deployment, measurement/alert analysis and regulatory compliance modeling.

Previous to that, John spent 10 years in the Global Supply Chain field, designing and managing client projects in the use of Radio Frequency computer solutions in manufacturing and distributor warehouses, EDI and real time messaging data communication solutions, and defining solutions in the forecasting/procurement-manufacturing/fulfillment space with proven technology supports and extensions to client SAP & Oracle business systems.

John's career began in the 70's with military projects (Cruise Missile and M-1 Tank) and proceeded into procurement and inventory control systems for the largest secondary copper and gold refinery in the world. He developed workflow control requisition and automated purchasing systems for the US purchasing operation and managed the International procurement of North American goods for the jointly owned and EXIM Bank financed refining operations in Zambia.

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EXPERIENCE

Internet Infrastructure Services Corporation, Short Hills, NJ 10/00 to Present
President

Created and consistently delivers professional services offerings using new Internet Security concepts and risk reduction methodical approaches for clients to define and measure business process improvements with Internet functionality. Services to global clients in Financial Services, Energy Sector, and Federal Government agencies. Active participant in NSA PISA program.

KEY PROJECTS:

Research Real World Data and Digital Data processing considering Machine Learning/AI, cloud containers (Kupernetes) and edge device sensor security solutions. 2017 - current

Market Network Exchange global trading with fiat and crypto token smart contracts. 2017-current

Federal Agencies – details provided on request.

Managed and delivered a Global Solution Architect role and practice area in the **AIG** Global Infrastructure Upgrade and most recently the Finance Target Operating Model global centers from 2010 to 2017.

Reference: GIU Enterprise Architecture and across virtual data center (power, cooling, OM4 Cable, Dell and IBM hardware, storage/backup/DR, asset management, monitoring and service description). Migration of LnR data centers into GIU centers.

LnR Compute Grid design (CPU based)

PnC global app design approach to IBM active –active design

PnC Cat Modeling and associated Bangalore Center (with Data Science addition)

PnC IBM SAS project (introduced Power 7 and IBM SAN on expedited 4 month delivery)

PnC Turkey Data Center and DR design

ERM GPU design and model review

FTOM – Global Center design and build in 2 India Sites, Bogota and Budapest with End User solutions of Citrix (XP, Win7, global print, WFA) for 1600 new resources.

Managed and delivered high security B2B and B2C globally load balanced e-solutions to **JP Morgan** retail bank Corporate Internet Group, Treasury Services, Worldwide Security Services and Global Infrastructure technology groups (2000 to 2011) aligning to SOX and Basel II requirements.

Reference: Chase Retail Bank Single Sign-on and real time monitoring solution

Chase Bank – Disaster Recovery Site

Chase Bank – web/app/DB in place upgrade

Chase Bank – Bank One merger migration

Chase Bank – Treasury Services Portal

JPMorgan – Treasury Services Virtualization Refresh (2006-2008)

JPMorgan – CMDB architecture to support virtualization (2008)

JPMorgan – Worldwide Security Services – mainframe to JAVA security lending conversion (2009)

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Global Technology Infrastructure Optimization Project –process improvement and architectural consulting to virtualize 175 applications operating on 18,000 servers in 30 data centers. (2010-2011)

Managed and delivered the architectural operational excellence design recommendation to **MetLife** that addressed the top 20 business applications running on mainframe and distributed servers (2006).

Managed and delivered Business Continuity Program design to **Instinet** in 2008 just after **Nomura** purchase.

Managed and delivered NERC Critical Infrastructure Protection (CIP) assessments and program design (policy, process & procedure) for large multi-state and single state utilities (National Grid, Xcel Energy, First Energy, Pennsylvania Power and Light, Oklahoma Gas & Electric, United Illuminating). Created Enterprise Security Architecture for Oklahoma Gas & Electric (2007-2008).

EE21, Inc. Edison, NJ.

10/99 to 09/00

Vice President – Sales, North America

Joined as one of the principals in this start-up Internet company creating PortalMaster, a secure middleware platform creating Internet to legacy solutions. Led the architecture, marketing, and sales efforts toward financial services industry security and operations risk improvement practice.

Celerity Solutions, Inc. Dedham, MA.

11/98 to 10/99

Vice President – Sales, North America

Responsible for all client server supply chain management software products, forecasting, Supply Chain Manager, inventory, order management, purchasing, warehouse management. Hired and managed 2 sales, 1 pre-sales and 2 marketing representatives. Lead product development toward the Internet interface.

EXE Technologies, Inc. Dallas, Texas

2/97 to 11/98

Vice President – Sales

Responsible for all warehouse management software accounts in the Eastern Region. Exceeded quota in 11 months. Hired and managed 3 sales and 2 pre-sales representatives and worked closed with the installation staff to improve market penetration and solid implementations. Established VAR relationships with Oracle, I2, LXE and ERP providers.

Uniteq Applications Systems, Inc. Redwood City, CA

1995 to 1997

Eastern Regional Manager

Managed marketing, sales, and consulting activities for object oriented UNIX warehouse and Supply Change software. Introduced and expanded Uniteq's sales in region to over 3MM in less than 18 months.

Defined and managed marketing program with Oracle with a focus on using our products to fill their supply chain offering.

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Quality Software Systems, Inc. Piscataway, NJ
Vice President – Sales

1989 to 1994

Joined as founding member of this warehouse management software company in a UNIX environment. Grew company from 200K to 2MM with my personal engagement and project management skills. Sold and installed solutions in Rubbermaid Corporation, Stanley Fastening, Troll Books.

Created and sold the first client server (PowerBuilder/Sybase) project for company. Directly managed marketing program with our main distributor, Dun & Bradstreet Software and managed consulting services.

AMAX, Inc. Carteret NJ

1978 to 1989

Corporate Planning Group – Manager of Business Development
Reported to site Vice President for business systems design and implementation for the four AMAX companies in Carteret (\$125 MM, 150 people).

Manager Engineering/Purchasing – AMAX Realty Development
Managed the transformation of US Metals Refinery into a 3 million square foot Industrial Seaport complex with \$10mm capital budget.

Manager of Purchasing – United States Metals Refining Company
Managed staff of 20 to purchase plant required equipment and services (100 million per year) for the world's largest copper/precious metals refinery (1 billion sales, 1800 people). Developed plant wide purchasing/inventory system on DEC VAX reducing 40% staff. Controlled 65000 square foot warehouse with 8000 inventory items (6MM value, 98%+ availability).

Abbott Transistor Laboratories Fort Lee, NJ
Senior Sales Engineer

1975 to 1978

Provided sales and applications engineering of military power supplies. Created marketing plans and sales for new weapons systems (M1 Tank, Cruise Missile, etc.)

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EDUCATION

Certified Information Systems Security Professional (CISSP) Certified.

NERC CIP Trained.

ITIL Certified.

Rutgers Graduate School of Management, Newark NJ
MBA, 1982. Attended school at night.

New Jersey Institute of Technology, Newark, NJ
BS in Electrical Engineering, 1975. Minor in Computer Design.

Proficient in all MS Office products, MS Project, Visio, TOGAF, BPR, System Architect

Active Security Clearance

PERSONAL

Married, 3 Children

Chairman – Mount Olive Board of Adjustment and Planning Board– 20 Years

Mount Olive Economic Development Board – 7 years

REFERENCES

Available on request