

Nicholas Vennaro

SUMMARY

More than 18 years of multi-national business management, software development and systems architect experience. Expertise includes: Security, e-commerce, network infrastructure, and mainframe environments. Strong insurance, health care, P&C, integration, security analysis, off shore development, and legacy migration skills.

- *Systems Security:* Access management (Authentication, Authorization, SSO, RBAC) risk analysis, security architecture, design, and development. Review of security controls. Use of tools such as OCTAVE, Tivoli Access Manager 5.1, 6.0, eDirectory, Active Directory, Entrust. Roles Mgt. – Aveksa, Vaau, and BrideStream. Managed PKI.
- *Architecture:* Enterprise Architect with big picture technical and communication skills. Experienced in web service and SOA. Data architecture experience including: BI, ETL, schema development, and governance. Design architect with detail hands on experience necessary for implementation.
- *Strategy Development:* Experience aligning mission critical business functions with global technology strategy. Includes offshore development and international experience. Business domains include – Healthcare, Financial Services, and Property and Casualty.
- *Cross platform & integration skills:* Java, .Net, C++, UDB, Oracle, SQL Server, CICS, Tuxedo, , MQSI, CrossWorlds, DataSynapse, SharePoint, SeeBeyond, Web Services, UDDI, and SOA.
- *Development:* Hands on use of: Rose, RUP, and Unified Development Process. Proficient Microsoft developer - .Net 3.5 – LINQ, WCF, WPF, ASP.Net, VB.Net, SQL Server, BizTalk.

PROFESSIONAL EXPERIENCE

AegisSecurityWorks LLC & BeaconStreetConsulting – Hartford, CT
Founder.

2004 –

ASW is a computer security and system design/development company specializing in risk assessment, security tools and implementations, and strategic design initiatives. BSC is an architecture, design and development consultancy. Partial client and project list includes:

- *Health and Human Services (HHS)* – architect for the National Health Information Network (NHIN). Major SOA based healthcare data sharing initiative. Design and develop open standard specs and infrastructure to securely transfer health records across the internet. Responsibilities in all project aspects – business, health data standards, UDDI, PKI, and interop testing.
- *Misys Software* – Summit Application (Windows and Unix)
Lead architect on a major SOA modernization effort to existing CORBA C++ product. Effort includes service definitions, data warehouse/ETL, system integration, BI, and design.
- *Phoenix Wealth Management* –
Define and Lead Security Program – Instrumental in defining and leading multimillion dollar security program including client requirement analysis. Major Projects:
 - **Roles Management Project** – Lead technologist and subject matter expert on implementation of Roles Management software solution – Aveksa.
 - **Authentication/Authorization system** – accountable for the design and development of web access management system. Tools – TAM 5.1/6.0, eDirectory, Active Directory.

EAM – Established enterprise architecture management group, artifacts, process, and governance models for a all aspects of enterprise using TOGAF, FEA Security Model.

Asset Management– technologist responsible for infrastructure (network, telephony, and server) design for new company – Microsoft environment – .Net, VB, ASP, SharePoint, and SQL Server.

Lead SOA architect for multi-million dollar IT transformation effort. Created SOA reference architecture, detail security architecture, w/ project deliverable responsibilities. Projects included: Data architecture, Metadata repository, canonical model, and SOA-ESB, new SDLC process based on Agile method, and RBAC. Tools – SeeBeyond, Rochade, CICS-SOAP, XML, Systinet

- *White Mountains Financial* – Led technical effort for new business area. Establish computer information area for development of transactional system, grid computing functionality and data warehouse, and network infrastructure design in a Microsoft environment.
- *New Century Group* – Security and architecture audit with risk assessment. Software development .net, SQL Server, COM+
- *Channing-Bête Company* – Microsoft .Net architecture and development support, LINQ, .net Framework 3.5, SQL Server WCF, WPF

CIGNA – Hartford, CT

2001 – 2004

VP Architecture.

CIGNA is one of the largest HMO in the world with 13 million members generating an annual claim volume in excess of 18 million, 20 thousand customer service calls per day, and supporting twenty-five thousand health care providers worldwide.

2004-2004: *Lead Architect* – Chief architect for Enterprise Architecture Management. Responsible for moving company away from individual product point solutions to a service oriented focus. Responsible for establishing IT strategy and its alignment with business goals. Project including – IT security lead, integration of security into design architecture, end to end business process monitoring/alerting, SOA initiatives, Championed Agile Method, and network performance testing, design, and analysis.

2002-2004: *VP Design Architecture* - Leader of 45 design architects. Responsibility to uplift the organization. Major achievement: Staff development, standardize architectural artifacts, increase quality of deliverables, and sell the value to the organization. Develop an architectural organization that can progress to Level 5 of the Architecture Maturity Model. Included Data architecture, Development architects and requirements analysts. Specialized in Microsoft technologies but also used J2EE, UDB, SOA

2001 – 2002: *Enterprise Architect* - collaborate with divisional information systems leaders and their business partners to identify opportunities for exploiting technology to achieve strategic business advantage. Responsible for 4 major components in the Healthcare Division: Pre-Sales/Marketing, Sales, Underwriting/Pricing, and Employer Services. Includes business, technical, and budgetary view (TCO).

Learning Brands - Boston, MA

1999 – 2001

CTO/Chief Architect

LearningBrands is an internet based knowledge marketing company. LB required a web based system that could support a user population of one hundred thousand. Built team from zero to 125+. Designed and built SOA solution for high transaction volume, eminently scalable internet based platform also developed patented software product. Responsible for – Requirements development, network design, performance, DR, software development. Directed operations in India and the USA. ASP.Net, COM+, SQL Server, Utilizing Agile development method.

Business Development – Involved in business development efforts as they related to: technology, market definitions, business planning/financing (strong contacts in the VC community), and client interactions.

National Grange Mutual – Keene, NH

1998 – 1999

Strategic Consulting/Microsoft Solutions Lead

Reporting to the CIO to set technical and business direction. NGM is a national property and casualty company that had one hundred thousand policies in force and in addition they processed other P&C

companies' transactions in an outsourced model – giving a total of 5 million policies.

Legacy Migration - Hands on management of the business and technical efforts involved in migration of a 25-year-old COBOL/VSAM insurance system to a midrange (intra and internet) environment. Including data, business process, and system architecture and design. VB, ASP, SQL Server, and Java.

Maersk Shipping. – Copenhagen, DK **1997 – 1998**
Lead OO Designer/Lead Architect

Maersk is the largest most successful shipping company in the world. I was contracted to energize and turnaround a floundering legacy migration project. Responsibilities included creation of the system architecture, development methodology, and infrastructure design (servers & network) that could support the new system. Responsibilities continued thru testing and implementation.

Delphi Information Systems – Chicago, IL **1997 - 1998**
Strategic Consulting - Business/Technical Architect

Delphi is a software company that creates shrink-wrapped software for property and casualty brokers. Reported to the CEO for new product effort. Responsible for designing strategic software solution to share data and process RT transactions between independent insurance agents and insurance carriers. Visual Basic, ASP, SQL Server, MTS.

Oxford Health Care (SMC) – Norwalk, CT **1996 - 1997**
Strategic Business/Technical Architect and Development Lead

Oxford is an entrepreneurial HMO based in southern Connecticut. SMC was a new business venture that was created by the CEO to change payer and physician interactions. I was responsible for development of business vision, architecture and design a system to meet the stated goals. New business created based on these efforts. Microsoft C++, VB, Oracle, and SQL Server.

Heathway's Managed Care – Glastonbury, CT **1996 - 1996**
Enterprise Application Architect

Reported to CIO for strategic and large project initiatives. Responsible for technical and business vision to meet strategic goals and turnaround engineering group. Migration to Microsoft technologies.

Aetna– Hartford, CT **1994 - 1996**
Architect and Development Lead

Aetna Health plans in the largest private health insurer in the world. AHP has in excess of 18 million members, 25 million claim transactions per year and a network of providers that is well over 250 thousand.

Legacy Migration Project - Reported to Aetna Health plans CIO for legacy migration effort to port mission critical applications to Java based distributed environment. Responsible for integration, porting methodology, and strategy.

IBM (State of CT) – Hartford, CT **1991 - 1994**
Architect and Development Lead

GUIDE Project - Contracted to lead \$15 million dollar development effort for the Connecticut Department of Labor. In a short period of time promoted to lead architect and developer for the entire project.

Phoenix Mutual – Hartford, CT **1991 - 1991**
Development Lead

Bond Rating Project - As lead developer.

Ames Dept. Stores – Rocky Hill, CT **1989 - 1991**
Development Lead

Cash Management System - Lead developer and business analyst for system replacement effort. .
Store Systems POS System - EDI strategy developed and implemented for vendor transactions.
POS Network Installation - analysis/install satellite and ground based network for POS systems.

Mount Sinai Hospital – Hartford, CT
System Designer

1987 - 1989

Responsible for business process reengineering, system infrastructure support – network, dB, and servers.

DRG Analysis Algorithms - New development effort to analyze patient diagnosis and procedure code data to ascertain optimal (highest reimbursement rate) diagnosis code order for patient billing.

National Medical Homecare – Hartford, CT
Healthcare Analyst

1986 - 1987

EDUCATION AND PROFESSIONAL DEVELOPMENT

Education/Certifications:

- **Master of Business Administration**, Finance; University of Hartford; CT.
- **Master of Science**, CS & Mathematics; Rensselaer Polytechnic Inst. Troy, NY
- **CISSP** (Certified Information Systems Security Professional).
- **SEI OCTAVE Certified** - (Risk Analysis)
- **CEH** – Certified Ethical Hacker.
- **Bachelor of Science**; Bio/Psych; SUNY.

Publications-Presentations:

- "*Security and Privacy for the NHIN and CONNECT*" Healthcare Information and Management Systems Society (HIMSS 2010). Presented at HIMSS conference in Atlanta: <http://www.connectopensource.org/about/events/himss10/speaking-sessions>.
- "*Enterprise Risk Assessments Overview and Approach*" white paper prepared for client consumption and entered for publication on IBM Developer Works – 2005.
- "*A XML Standard for Carriers and Agents*", a white paper presented at AMS Users Group; April 1999.
- "*Load Balancing Issues in Parallel DBMS's*"; 12th Annual CS Proceedings; Hartford CT April 1996.
- "*A Large Volume OLTP/DB2 GUIDE System Architecture*" Presented at the GUIDE Conference 1994.
- "*Object Oriented Vs Relational Data Bases*"; Data Management Review, October 1994.
- "*Error Processing Using DB2*"; Technical Support Journal, October 1992.

US Patents:

- "*Method and Apparatus for Creating an On-line Adaptive Course* – (expired).