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✓ Abstract:

Well-rounded information technology and security professional with both the breadth of experience and depth of knowledge needed to inspire and lead a team of information technology professionals to build innovative and cost-effective information security solutions for any enterprise.

- ✓ **ACTIVE** involvement with InfoSec progress in Infragard, (ISC)² and ASIS.
- ✓ **FINANCIAL INDUSTRY** involvement with Wall Street Technology Association since 1997.
- ✓ **TEAM-BUILDING** experience with enterprises, startups and community service environments.
- ✓ **REGULATIONS** and **COMPLIANCE** experience including SOX, GLB, FFIEC, HIPAA and Global Trade Compliance.
- ✓ **PATENTED** and **PUBLISHED** in the areas of information security, human-computer interfaces and technology research.
- ✓ **SPEAKER** with experience presenting at conferences and hosting seminars.
- ✓ **RESEARCH** expertise in behavioral biometrics, human-computer interfaces, medical imaging and usability engineering.
- ✓ **COMMUNITY** service in U.S. FIRST Lego League and as a volunteer firefighter.

✓ Certifications:

- ✓ **CISSP**, "Certified Information Systems Security Professional", #54455, (ISC)², 12/2003.
- ✓ **CSSLP**, "Certified Secure Software Lifecycle Professional" #54455, (ISC)², 12/2008.

✓ Education

Pace University

New York

MBA / Information Systems (01/1987) 3.5 (cumulative) / 3.75 (major)

BS / Computer Science (06/1986) 3.3 (cumulative) / 3.5 (major)



✓ Relevant Experience

Information Security, Privacy, Compliance and Governance

[2008-present] Technology expert for NEMI (the Nassau Emergency Management Initiative) – a federally funded grant issued to only 13 education institutions nationwide to design an all-encompassing emergency management plan. The deliverables of this grant are to be used as an emergency management template for education institutions nationwide. The plan promotes the convergence of physical and logical systems in a structured, phased and repeatable process.

[2007–2008] Automated the global trade export compliance workflow for Verizon Business. Resulting efforts should reduce the global trade compliance penalties substantially and show net return on its initial \$6.5MM investment within one year. Highly visible corporate effort: vertically interacting with many levels of management from the CIO down to development teams, and horizontally across many business divisions from Legal to Sales to over 12 different IT systems.

[2006-2008] Principal information security liaison between PlanSponsor and their financial industry clients. Assisted in SOX/GLB compliance initiatives. Provided C-Level information security awareness training.

[2006-2007] Directly involved in redesigning the Verizon Business contract creation process; to ensure the integrity of the contracted rates as it flows from the presales group to the legal department and finally from the client to the billing department. Implemented a twofold design which instantiates a golden datasource for all departments to work from and embedded digital watermarking to protect the document contents.

[2006] Provided affidavit of technical expertise to PlanSponsor with a legal matter involving a former IT contractor and proprietary code claims. Conducted independent security investigations of alleged intellectual property violations.

[2000-2003] Assisted CardioNOW, a medical imaging startup, in the HIPAA training and compliance process.

[2002] Conducted breach investigations for local employment agency which lost major clients through stolen and sabotaged contracts.

[1998-1999] Involved in the ISO9002 audit and certification process for the Kodak Health Imaging G4 product line.

[1993-1998] Member of Technical Staff for NYNEX Science & Technology; assisted in the ISO9001 certification process.

[1990-1993] Part of a team for Nova Microsonics responsible for the ISO9000 certification process.

Management / Leadership

[2004-present] Active member of WSTA Advisory/Content Committee, which determines the content and future direction of technology issues to be presented to member financial firms.

[1997-present] Director of Technology for WSTA organization, responsible for the maintenance and security of the WSTA technology services including IDS/IPS, eCommerce, eMail, servers and office systems.

[2000-2001] Director of IT Development for SemiSales.com, a semiconductor B2B marketplace specializing in the semiconductor manufacturing industry.

[1990-1993] Project Manager for Nova Microsonics "ImageVue DCR" medical imaging workstation.

[1988-1992] Captain and Lieutenant for City of Rye Fire Department, Milton Point Engine 192, overseeing a working team of 65 personnel and \$1.5MM annual budget.

Biometrics / Technology Research

[2002-present] Founded bioChec™, the first internet capable keystroke biometric solution for secondary authentication.

[2006] Principal consultant and catalyst for the successful completion of several innovative projects in the Pitney Bowes Advanced Concepts & Technology Lab, including a new revenue avenue for PB that could generate up to \$120MM annually.

[2000-2003] Designed and prototyped a user-profile selection using fingerprint devices for Kodak Health Imaging's G4 product line that could be used for secure digital signatures of imaging diagnosis reports over DICOM.

[1993-1998] Member of Technical Staff for NYNEX Science & Technology; received a patent for his unified messaging. Created NYNEX's first online web access to legacy systems such as customer billing. Issued one of the first Technical Memos on emerging web security threats. Created the first web-based fingerprint authentication implementation.

[1984-1986] Research Assistant for IBM's T. J. Watson Research Center in the User Interface Institute. Assisted in the design, execution and analysis of experiments under such notable human factors scientists as Dr. John M. Carroll, Dr. John Gould, Dr. Clayton Lewis, Dr. John Roberts and Dr. Robert H. Mack.

System Design / Development

[2008-present] Contracted by Fuji Medical Systems to re-architect the ProsoIv™ PACS Integration, Measurement and Reporting subsystems.

[2000-2003] Chartered to redesign the Verizon Wholesale access ordering process for large projects based on Verizon's need to accommodate a surge in reconstruction orders immediately following the 9/11 tragedy.

[2000-2003] Developed real-time ultrasound display for CardioNOW's medical imaging workstation and DICOM image/transfer support for image servers.

[1999-2002] Developed Lynx's Virtual COM Port Driver for their FieldLynx handheld device which communicates serial/parallel data over TCP/IP networks seamlessly.

[1998-1999] Developed real-time ultrasound display for Kodak Health Imaging's G4 medical imaging workstation, including RTOS firmware design and development for a patented G4 Imaging CODEC board.

[1990-1993] Lead developer for Nova Microsonics for "ImageVue" ultrasound imaging workstation and server product line.

[1988-1989] Developer for IBM's TPF division, implemented tape device drivers and test protocols for the TPF O/S.

[1987-1988] Developed Mobius Management Systems' "PC-INFOPAC" commercial software package.

Startups

[2009] Co-founder of Export Decisions Corporation – which turned export compliance into an SOA hosted solution to allow companies of any size to comply with international regulations on trade and exports.

[2002] Founder of bioChec™ -- an innovative behavioral biometric technology that tracks a user's innate typing rhythm for later verification.

[1999] Early team member of SemiSales.com – a unique B2B marketplace that connected chip manufacturers to raw material providers regardless of size.

[1996] Co-founder of Greenwich Online Corp – one of the first online sites to provide community based content allowing residents to review local businesses (precursor to blogging) and even order via only faxing to local businesses without internet access.

[1993] Founder of Checco Services Inc. – a consulting business that specializes in business analysis, systems architecture and information security.

[1990] Early team member of Nova Microsonics – a medical imaging company that offered one of the first offline cardiology imaging measurement workstations and digital reporting.

[1987] Early team member of Mobius Management Systems – a company that found its niche in allowing mainframe reports and data to be converted to PC formats for local processing.

✓ Skills & Accomplishments

Memberships / Affiliations:

- **Infragard** (NY Metro Area) Secure Member, 2003-present
- **ASIS International** (NY Chapter), 2003-present
- **WSTA** (Wall Street Technology Association), 1997-present
WSTA Advisory / Content Committee, 2004-present
- **ACM SIG-CHI** member (1993-1998),
- Licensed **NYS Instructor** in Adult Education of Computer Science (1987-1992).

Community Service:

- **FIRST Lego League Judge**, Hudson Valley, (2007, 2008)
- **Stony Point Fire Department**, Wayne Hose Co. #1. (1996-present)
Extrication, Dive Team Tender / Ice Rescue
Certified "Rapid Deployment Search & Rescue – Tender" (ACUC #RDSR313)
Certified "Blackwater Search & Rescue – Tender" (ACUC #BW-091)
- **Rye Fire Department**, Milton Point Engine & Hose Co., (1982-present)
Captain (1990-1992), 1st Lt (88-90), Treasurer (86-88, 92-95)
- Certified **USA Hockey Coach**, Level-I (2007).

Technical Skills:

- **Regulatory Knowledge:** FFIEC, SOX, GLB, HIPAA, HSPD12, FISMA
- **Standards/Methodologies:** ISO, COBIT, ITIL, CMM, SDLC, Yourdon
- **Programming Languages:** C/C++, Java/J2EE, ASM (x86/MMX/TPF), i960 C (RTOS)
- **Scripting Languages:** Perl, JSP, PHP, JavaScript, Rexx
- **Databases:** Oracle, MySQL, Microsoft SQL Server
- **Operating Systems:** Windows, Linux/BSD/Solaris/AIX, OS/2
- **Biometric Technologies:** Keystroke (behavioral), Fingerprint (physical)
- **Virtual Reality Systems:** Division PVX100, Crystal River Engineering (Aureal) 3D Audio

Patent Work:

- **"A Method for Providing Computer-Based Authentication Utilizing Biometrics"**, Patent #7,509,686.
- **"Messaging Architecture Supporting Digital and Analog Media"**, Patent #5,859,898.
- **"Ultrasonic Diagnostic Imaging System"**, Negrin, Irv, et al., Patent #6,231,510.
- **"SMARTHELP"**, IBM Patent Disclosure #Y08-86-0631.
✓ Ref. "The Nurnberg Funnel", Carroll, John M., The MIT Press, 1990.

Publications:

- **"Responsibilities of the Federal CTO"**, WSTA, 2009.
- **"What Happens After the Lights Go Out?"**, WSTA, 2009.
- **"Strategies for Effective Mitigation Planning"**, WSTA, 2008.
- **"I Got Rhythm"**, MediaPost Magazine, 2008.
- **"Virtualization Striping "**, WSTA, 2007.
- **"Federated Identity Theft"**, WSTA, 2006.
- **"Biometrics... Coming to an Online Bank Near You"**, WSTA, 2006.
- **"The Key to Biometrics Success"**, Intelligence and Warning America, 2005.

- ☪ **"What Can Biometric Technology Tell Us About Economics: Part I"**, 2005.
- ☪ **"Offshore Outsourcing and Intellectual Property Protection"**, WSTA, 2004.
- ☪ **"Keystroke Dynamics & Corporate Security"**, WSTA, 2003.
Ref. "Biometric Technologies and Verification Systems", Vacca, John R., 2008.
- ☪ **"Information Crisis Management"**, WSTA, 2003.
- ☪ **"Web Security Design Guidelines for Sites Accessing NYNEX Customer Information"**, NYNEX Science & Technology, TM97-0010, 1997.
- ☪ **"Transparent CSCW"** Series of White Papers, 1996.