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30 Sheppard Road
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Work History - Academic

Thomas Edison State University (NJ) - (Online)
Cybersecurity Advisory Board (Graduate Certificate Program for Utilities)	'16 -**Present**
Educational Consultant (Course Developer)	'15 -**Present**
Mentor (Online Instructor)	4/17 - **Present**

Quinsigamond Community College (QCC) – Worcester, MA
Adjunct Faculty – Cybersecurity & Computer Information Systems (Online & Face-to-face)	'84 – **Present**
Workshop Leader: Cybersecurity & Supply Chain Security (Training & Education Center)	8/'14
Adjunct Faculty – Education	'76 – '84
Faculty Member (Full time) –Education Department	'76 – '78

University of Maryland, R. Smith School of Business – College Park, MD
Adjunct Faculty - Cybersecurity Leadership Program, Federal IT Acquisition course	3/'13 – 6/'13

Mass. Board of Regional Community Colleges (@QCC)   '78 – '80
Training Developer/ Program Coordinator
- Developed federal funding for innovative model statewide training program.

Work History - Industry

Institute for Defense Analyses – Alexandria, VA   **9/'18 – Present**
    Consultant (contractor) **– Software Assurance and Supply Chain Security**

EMC Corporation – Hopkinton, MA   **3/'96 – 4/'14**
Sr. Consultant Product Manager – EMC Product Security Office (including RSA)	2/'06 – 4/'14

- Supply Chain Assurance Lead
  - Security lead – formal EMC wide Supply Chain Risk Management (SCRM) Program
  - Principal author of EMC Source Code Protection Standard
  - Source Code Protection Program Engineering Lead
  - Industry recognized lead in Supply Chain Risk Management
    - Published Standard & Accreditation re: tainted & counterfeit products
    - Co-chair of SAFECode whitepaper on Supply Chain Integrity Controls
    - SME for EMC Gov't Affairs re Cyber Legislation @ Senate subcommittee
    - DHS/DoD/NIST *Supply Chain & Software Assurance* Working Groups   (since '07)
- Federal Security Compliance Specialist
  - Security lead from PSO defining EMC and RSA Federal compliance & status
  - Lead author of EMC Federal Engineering Product Requirements
  - Security lead for VMAX array encryption module certification for FIPS 140-2
- Responsible for driving "Secure Serviceability" requirements throughout EMC product line
- Product Manager for unique service authentication security technology embedded in EMC's premiere storage system in production today with over 20,000 systems

Principal Architect – "Extended Enterprise" (e-business & extranet apps dev. group)   6/'02 – 2/'06
- User Security & Content Entitlement Lead on $20M project to revamp EMC's web portal for customers, partners and employees; hosts all product info and SSO for 30+ applications.
- First major instance of VMware on blade servers with first RSA single-sign-on security

- Led early efforts to establish identity & access control info that governs > 400k people
- Team member that modified overall IT project methodolog7

Field Consultant – Information Assurance (additional field & Customer facing role)   01/'00 – 2/'06
- Customer facing expert on security controls used in supporting EMC products

Director of Information Security   1/'00 – 6/'02
- Led design of EMC's first Virtual Private Network (VPN) in EMC plus RSA SecurID
- Assessed business risk most new IT systems; redesigned Internet gateways for EMC

Director of Operations, EMC University   1/'98 – 1/'00
- Managed registration and training facility demands to accommodate an
  explosive growth of new employees (> 10,000 in 2 years)

Director of Technical Services   3/'96 – '1/98
- Responsible for EMC's corporate IT infrastructure, including
  (Data Center, Systems, Network, Help Desk and PCs) during expansive growth
- Created 1st Sales showcase to EMC Customers. Now part of EMC Cust. Briefing Cntr.
- Created 1st IT security policies: Internet, email and PC usage
- Enabled EMC's Clarify CS System to meet global performance requirements
- Brought RSA SecurID to EMC Corp. for authentication

New England Electric (now National Grid) –Westboro, MA   5/'80 – 2/'96
Manager, Technical Services   6/'93 – 2/'96
- Responsible for all technical computer and network resources.
  (Data Center Operations, Networks, Systems and Help Desk)
- System implementation support for new ERP
- Responsible for Disaster Recovery including hot site testing
- Responsible for Operations Security
- Responsible for Desktop Publishing Group (chargeback or perish)

Manager, Computer Resources Planning   2/'87 – 6/'93
- Key member of team that planned new corporate systems (e.g. ERP, email systems
- Budget responsibility for IT with complex cross company charge-backs.
- Created work management system in support of 1.3M customers for
  Mass Electric, Narragansett and Granite State Electric. (lasted > decade).

Staff Assistant to Chief Operating Officer   1/'86 – 2/'87
- Development position awarded on merit
- Assisted COO with budget and personnel coordination (8k employees and $250M range)
- Analysis, policy recommendations, executive briefings, and inter-company benchmarks.

Senior Systems Analyst   '82
- 1st adoption of PCs; video prep of Chairman for regulatory "Rate Case"
- For *NEPSCo* President: coordinated transfer of all employees to 1st HMOs in N.E.

Energy Institute – Educational Coordinator   '81 – '82
- 2 person internal startup. Successful seminars that attracted major global utilities
  - *Preventing Energy Theft* was biggest money maker

Data Processing Educational Coordinator   '80 – '81

Publications

Technovation, Special Issue on Supply Chain
"Criticality Analysis and the Supply Chain: Leveraging Representational Assurance"   7/'14
CrossTalk, The Journal of Defense Software Engineering.
"Collaborating Across the Supply Chain to Address Taint and Counterfeit"   3/'14

National Presentations (selective)

UCONN Center for Hardware Assurance, Security & Engineering (CHASE) Conference	6/'16
Trustworthy Suppliers Framework Forum (@ NIST, (Panel Member)	5/'16
RSA Conference (NIST Cybersecurity Framework & Suppliers)	3/'16
RSA Conference (Cyber Insurance, Avoiding Development Attacks, Supply Chain Panel)	4/'15
SOURCE Security Conference (SCAP for Everyone)	4/12
Software Engineering Process (SEPG - CMMI) Conf. (Resilient SW)	3/12
RSA Conference (Supply Chain Panels)	'11 & '12
Critical Infrastructure Congress (2 sessions))	12/10
Computer Security Applications Conference (3 sessions)	12/10
DHS/DoD/NIST Software Assurance Forum (2 sessions)	10/10
RSA Conference (Source Code Protection session) & Gov't Policy Facilitator	4/10
DHS/DoD/NIST Software Assurance Forum: SAFECode.org Training Whitepaper	3/09
DHS/DoD/NIST Software Assurance Forum: Panel: Overcoming Barriers to SwAssurance	12/08
Software Engineering Institute/Carnegie Mellon Univ.: Business Case for Software Assurance	9/08
EMCWorld: conference VMAX (Symmetrix) System Security	2008
DHS/DoD/NIST Software Assurance Forum: Education Panel; EMC Product Assurance	2008
National Academy Sciences (DC) Panel: Dependable Systems	2007

Awards
Open Group Trusted Technology Forum
   Outstanding Contribution Award   *2013*

Westboro Chamber of Commerce
   President's Award for Transportation Planning   *1986*

Community
University of Massachusetts – Dartmouth, MA
   Computer Science Industrial Advisory Board   *'07* **– Present**

Open Group's Trusted Technology Provider Standard (ISO/IEC-20243)   *'10* - **Present**
   Chair - Global Outreach & Standards Harmonization

Sagamore Highlands Association (Bourne, MA) – **Treasurer**   '06 - **Present**
      President   *'04 – '06*

Westboro Chamber of Commerce – **Transportation Chair**   *'83 – '86*
   Led a Mass. state effort to plan for improvements to Route 9.
   Brought four communities together for first time. Improvements remain today.

Worcester City Manager's Cable TV Advisory Council - **Vice Chair,** Negotiating Committee   *'83*

Education
Tufts University
   B.A. (Liberal Arts)   *'72*

Worcester State University
   M. Ed. Education   *'76*
   M. Ed. **Computer Science**   *'83*

Harvard Business School: "Managing the Information Resource" program   *'93*
Nominated by NE Electric *Chairperson of Board* to attend global program for IT leaders

Certifications:
CISSP and CSSLP (*Certified Secure Software Lifecycle Professional*)   *'09 -*