CRAIG ELLROD, MBA, CISSP® CCSP®

+1.408.717.0357 • CraigEllrod@gmail.com • Castle Rock, CO

SECURITY SOLTUIONS CLOUD ARCHITECT & PRACTITIONER
SENIOR HANDS-ON CISO, DEEP DIVE TECHNICAL, MULTI DISCIPLINED CYBER

CAREER OBJECTIVE – CUSTOMER FACING, CYBERSECURITY SALES SOLUTIONS ARCHITECT

With my extensive Cybersecurity street cred earned from hustling in the trenches of multiple global tech giants and scrappy startups, I've dialed-in my art in crafting and deploying programs and products across a plethora of tech realms. Armed with an MBA and a battle chest of certifications including CCSP, CISSP, and a baker's dozen more, I'm not just your run-of-the-mill cyber soldier—I'm a certified high level conceptualizer who codes and loves doing it.

SUMMARY OF CREDENTIALS

- MBA Pepperdine, BS Computer Science, Cal State
- Tech leadership roles at Industry leading vendors
- Experience serving a wide range of tech, enterprise, commercial, telecom, NGO, government customers
- Global tech operations in US, Asia, Europe
- FedRAMP, CMMC, GDPR, CCPA, HIPAA, SOX, GLBA, PCI, FISMA, FIPS, Common Criteria, NIST CSF, NIST RMF, NIST SP-800, CIS, HITRUST, ISO 27001, SOC 2/3, DFARS, ITAR, Nevada Gaming Control, CJIS, NERC CIP, ANSI, Cloud Security Alliance, MITRE ATT&CK, CVE's, Data Sovereignty, DISA STIG, NIAP
- AWS Certification – Architect Associate
- Certified Information Security Services Professional (CISSP) ISC2 (Active **#674969**)
- Certified Cloud Security Professional (CCSP) ISC2 (Active **#674969**)
- 13 additional Technical Certifications
- 3 US patents for cybersecurity innovations
- 5 books and videos published on Packt, Amazon
- Strong Team Leadership and management skills
- Active engagement with professional industry associations
- Active contributor to Cloud Security Alliance - Application Containers and Microservices Security and Cloud Controls Matrix v4 – working groups

KEY TECHNOLOGY PLATFORMS & SKILLS

AI – Google Cloud AI, Gemini, Diagflow

WEB3 – Solidity, etherscan.io, brownie, ganache, ziion, remix, wormhole, capturetheether, ethernaut, openzeppelin.

TECHNICAL MARKETING – Inventor, Author of Technical Marketing (Wrote the book on it), Wordpress + HUBspot + Adobe + Creative Mind = BOMB Ass Lead Gen, CLOUDcampaign, Canva, Adobe Premiere Pro, Illustrator, Audition, After Effects, Media Encoder.

CYBERSECURITY – EDR/MDR/XDR, SIEM, SOC, Managed Detection and Response, End-to-End Encryption, Email Encryption, Web Application Firewall (WAF), DDoS, IDS/IPS, Zero Trust, UDP, TCP, HTTP Based Attack Mitigation, Flooding, Amplification, Reflection, Volumetric, Botnet Attack Mitigation, Honeypots/Tarpits, modsecurity, SOC I/II/III, ISO 27001

CLOUD – Digital Ocean, AWS, Azure, Google Cloud Platform (GCP), Softlayer (IBM), Rackspace, Private, Public, Hybrid.

CLOUD TOOLING – TERRAFORM, VAULT, CONSUL, NOMAD, ANSIBLE, YAML, JINJA, github, gitlab, Docker, Kubernetes (k8s), k9s, EKS, ECS, EC2, Lambda, SSM, CodeBuild, Google Deployment Manager, Google Migration for Compute Engine, Google Migrate for Anthos, Mesos, Swarm, Chef, Puppet, CI/CD, Infrastructure-as-Code, OpenShift, Jenkins, Bitbucket, Jira.

IDE – Visual Studio Code, Sublime Text, Atom.

VIRTUALIZATION - VMware vSphere ESXi, XenServer, Hyper-V 2016, Hyper-V Manager, System Center Virtual Machine Manager, Windows Network Virtualization, KVM, OpenStack (nova, neutron, cinder), Puppet, VirtualBox, Parallels, Software Defined Networking (SDN), Software Defined Datacenter (SDDC)

OPERATING SYSTEMS – Kali, Linux (Ubuntu, Centos, Debian, Kali), Windows, MAC OS X, Vyatta

WEB SERVERS - Apache, Nginx+, Node.js, WordPress

CODING/SCRIPTING - Bash, Python, PowerShell

DATA STORAGE - NoSQL, MySQL, MySQL Workbench, HDFS, MongoDB, Hadoop, BigQuery, E3, Cloud Storage, Cloud SQL, Cloud Spanner, Cloud Datastore, BigQuery, Redis, Memcached, DBProxy, HAProxy

PROJECT & PROCESSES - Agile, Scrum, SAFe, Continuous Integration/Development/Deployment (CI/CD), OpenProject

COLLABORATION - Discord, Slack, Zoom, Microsoft Teams, Salesforce Lightning, Milanote

PROTOCOLS - TLS 1.3, HTTP1.1, HTTP2, HTTPS, FastTCP, TCP/IP, UDP, QUIC, SPDY, FTP, SNMP, SMTP, SIP, IMAP, DNS, NTP, SSH, SSL, ARP, BGP, ICMP, IPsec, MPLS, OSPF, RIP, NAT/PAT, AAA, more

ARCHITECTURAL CONCEPTS - Public/Private/Hybrid/on-prem Obfuscation & Abstraction, IaaS, PaaS, SaaS, Private/Public/Hybrid Cloud, SDN, SDDC, DNS, SAN, NAS, DAS, SOA, Microservices, Desktop and Application Virtualization, Cloud Computing, Cloud Networking, Routing and Switching, Application Delivery, Application Firewall, OWASP, WASC threat protection, Load Balancing, Content Switching, Compression, Caching, TCP Multiplexing, SSL Acceleration, Layer 2/Layer 3 Routing & Switching, IPv4, IPv6, Ethernet-802.3, 802.11a/b/g

APPLICATION SOFTWARE
Google – G-SUITE
Akamai - CDN Technologies - HyperCaches, Request Routers (DNS), Analytics, Web Acceleration, Pareto Modeling
Citrix - NetScaler VPX/MPX/SDX, NetScaler Gateway (SSL VPN), NetScaler MobileStream, CloudBridge, CloudBridge Connector (Hybrid Cloud), XenMobile, XenApp, XenServer, XenDesktop, XenCenter, XenClient, Open Virtual Switch, VDI-in-a-Box, AppDNA, Citrix Receiver (Mobile, Desktop, Linux, Mac, Thin Clients), ICA/HDX, GoToMeeting, GoToWebinar, GoToMyPC, HiDef Corporate, Sharefile
Microsoft - Word, Publisher, Excel, PowerPoint, Project, Outlook, Visio

GRAPHICAL SOFTWARE – Lucidchart, InDesign, Illustrator, Photoshop, Acrobat, Audition, PremierPro, Dreamweaver, Animate, Character Animator, Media Encoder, After Effects; Omnigraffle; SNAG-IT, CAMTASIA

HARDWARE - Cisco UCS, Dell PowerEdge, HP Proliant, Cisco Routers and Switches, Extreme Networks, Citrix NetScaler, CloudBridge (WANScaler), NetScaler Gateway (SSL VPN), NetScaler Web Application Firewall

─────────────── **CAREER EXPERIENCE** ───────────────

DevSecOps Solutions Architect – Balsam Brands, *Denver, CO*   **04/2023 – present**
Focused on bringing the first Cybersecurity program to an eCommerce company.
- Led the Security and Compliance offshore team through several compliance frameworks and compliance automation for GDPR, CCPA, PCI and others.
- Served as the single Cybersecurity resource for all things Cybersecurity, including architecture review, data protection, gaps and risks.
- Architected a secure CI/CD Pipeline for Jenkins and Bitbucket processes across the OWASP CI/CD Top 10 Recommendations.
- Implemented a Complete Cybersecurity program to include GRC, CERT, DR, IR, procedures and processes.
- Documented from head-to-toe existing Cybersecurity practices, identified gaps and made recommendations for improvement of a multi-year plan.
- Implemented a Risk Analysis program, including Risk Scoring and Evaluation.
- Provided Cybersecurity guidance on infrastructural designs across the entire eCommerce architecture, including the Frontend, APIs, Backend, Order Management and Data Storage.
- Lead the Cybersecurity vendor evaluation and proof of concept phase of implementing 3rd part vendor tooling.
- Implemented the first Cybersecurity Incident Response Team and led the efforts to respond to threats and vulnerabilities.
- Implemented the first Cybersecurity Architecture Review Board Guidelines and Framework.

SENIOR CYBERSECURITY CLOUD SOLUTION ARCHITECT – JupiterOne, *Denver, CO*   **10/2022 – 04/2023**
Focused on sales, customer onboarding, and ongoing solutions development for the business. Also learned about customers' needs, guiding them to tech wins on the JupiterOne platform, and guiding development when custom solutions require it.
- Drove the installation and testing of JupiterOne security products at key customer accounts.
- Acted as primary source for customer demonstrations and Proof of Value engagements.
- Acted as a subject matter expert on JupiterOne architecture, infrastructure and over 180 integrated technologies.
- Pioneered efforts to create usable JupiterOne API sample code using Python.
- Used knowledge of Cybersecurity compliance frameworks to provide consultancy to prospective customers.
- Authored solution design documents supporting JuipterOne cloud security capabilities.

SENIOR CYBERSECURITY CLOUD SOLUTION ARCHITECT – CEQUENCE.AI, *Denver, CO*   **04/2022 – 10/2022**
Responsible for owning, understanding, researching, designing and developing API security solutions technical and reference architectures and supporting security strategies tailored to the customer's business needs, with a focus on cloud technologies.
- Drove the installation and testing of cequence API security products at key customer accounts.
- Authored multiple scripts and API examples using BASH & Python to help customers build API security on EC2 hosted Kubernetes and EKS – examples on my https://github.com/surfd4wg/ account.

- Acted as a subject matter expert on Cequence architecture, infrastructure and underlying technologies such as NGINX, KeyCloak, Kafka, Spark, Prometheus, Strimzi, helm charts.
- Pioneered integrations efforts with eco-system solutions such as APIgee, Solo Gloo, K9s alongside Kubernetes.
- Built TV production quality videos around demo structures with Use Cases, attacker scripts, backend API endpoints, and everything in between – EC2 Nodes, K8s, Kubeconfig, Docker, Helm, Overrides YML – for internal and external publication.
- Authored solution design documents supporting Cequence cloud security capabilities.

SENIOR CYBERSECURITY CLOUD SOLUTION ARCHITECT – ARMOR DEFENSE, *Denver, CO*   10/2020 – 03/2022

Responsible for understanding, researching, designing and developing security solutions, technical and reference architectures and supporting security strategies tailored to the customer's business needs, with a focus on cloud technologies.
- Consistently positioned Armor as the #1 Leader in Managed Security Services (MSS) across the MSP customer base.
- Authored multiple scripts and API examples using BASH, CURL, Powershell, Python, Postman to help customers authenticate and call Armor API endpoints – examples on my https://github.com/surfd4wg/ account.
- Performed as a subject matter professional on cloud security technologies with responsibilities to coach and mentor customers on best practices in cybersecurity.
- Dazzled customers with crisp webinars, presentations, amazing demo's, documentation, POC's and complete proposals that include detailed sizing, scoping and pricing.
- Lead the technical pre-sales requirements gathering, sizing, scoping and pricing discussions and post-sales implementation of cybersecurity solutions as they relate to Managed Security Services (MSS).
- Authored several solution design documents supporting our cloud automation capabilities.
- Actively contribute to local and industry Cybersecurity groups – ISSA, ISACA, InfraGard, DefCon, *con's, BSides, dc719, Illuminati Party.

SENIOR CLOUD SECURITY ARCHITECT – CLOUD SECURITY ALLIANCE, *REMOTE*   05/2020 – 12/2023

In the past, the security needs were either skipped or only addressed after the deployment of applications, or worse after security vulnerabilities were exploited. Such an approach increased risks to the deployment and contributed towards a more hostile relationship between security and the development and operations teams. DevSecOps focuses on creating a transparent and holistic management approach that leverages the synergies between the development, security and operational functions, making way towards a proactive and agile security stance.

In alignment with this effort, I have chosen to contribute to my cybersecurity community by offering guidance and architectural expertise to the DevSecOps, Application Container and Microservices working group's whitepaper on how to apply security context to container and microservices architectures.

SENIOR CYBERSECURITY CLOUD SOLUTION ARCHITECT - TRUSTWAVE, *Denver, CO*   01/2018 – 05/2020

Spearhead sales support for leading cybersecurity and managed security services provider serving the energy, state and local government, education, hospitality, ecommerce, financial, retail, legal, health care, and payment services sectors. Served as the primary technical resource throughout the sales process, responsible for identifying new client revenue opportunities, sales strategy, and pulling in the appropriate support infrastructure to assist the sale. Responsible for showing prospects at a technical and business level how Trustwave's managed security solutions (MSSP) meet their business needs.
- Consistently placed Trustwave as the #1 Leader in Managed Security Services (MSS) across 95 customers in the US Western Region, despite a Gartner ranking of #2 in the market.
- Achieved 100% RFx down select rate (top finalist).
- Closed $7M in the Western Region.
- Wowed customers with crisp and dazzling presentations, amazing demo's, documentation, POC's and complete proposals that include detailed sizing, scoping and pricing.
- Lead the technical pre-sales requirements gathering, sizing, scoping and pricing discussions and post-sales implementation of cybersecurity solutions as they relate to Managed Security Services (MSS).
- Created a proprietary competitive radar tool running on a Node.js server to effectively perform competitive analysis; integrated the tool with Twilio SMS, SendGrid Email services and a WordPress Blog for innovative CRM deployment.
- Authored 20 solution design documents, white papers, RFI/RFQ/RFP Responses, Statement of Works (SOW), architecture diagrams and deployment plans.
- Provide pre-sales scoping expertise in Red Team Operations, SpiderLabs, MDRe endpoint detection and response, vulnerability scanning and consulting, Managed SIEM, AV, IDS/IPS, Firewall, VPN, Next Gen Firewalls.

- Actively contribute to local and industry Cybersecurity groups – ISSA, ISACA, InfraGard, DefCon, *con's, BSides, dc719, Illuminati Party.

SENIOR CLOUD SOLUTIONS ARCHITECT - AKAMAI TECHNOLOGIES, INC., *Denver, CO*   09/2014 – 12/2017

Technical sales leader for pioneer in global content delivery network (CDN), cybersecurity, and cloud service, providing web and Internet security services through one of the world's first truly elastic and distributed cloud computing platforms. Led technical sales activities including managing the technical relationship while acting as the subject matter expert for Akamai CDN, Web Acceleration, Video delivery and Security products.

- Consistently exceeded revenue targets of $3M by managing the pre-sales technical process and evangelizing Akamai's technology and service offerings to existing and prospective partners and customers.
- Spearheaded the rollout of a National CDN for Charter Communications Video on Demand CDN.
- Led the technical pre-sales discussions and post-sales implementation of:
    - Cloud media delivery technologies such as HLS, HDS, MSS, Adaptive Bitrate Streaming (ABR), and DASH in Multi-Screen Video, Multi-Device environments (Broadcast, Live Linear, VoD, OTT, IPTV, nDVR, TSTV, SD, HD, 4K, STB, MPEG-2, H.264, H.265, HEVC).
    - Cloud web acceleration technologies such as Advanced Static and Dynamic Caching, Compression, FEO, multi-format image conversion to WebP, Jpeg2000, JpegXR, Failover and High Availability, Global Server Load Balancing, and Real User Monitoring.
    - Cloud security technologies such as KONA Site Defender, Web Application Firewall (OWASP Top 10 - SQLi, XSS, RFI), DDoS, Bot Manager and the Zero-Trust perimeter Enterprise Application Access (EAA) product.
- Led the market implementation of Akamai CDN products for SDN, NFV, VNF deployments with regards to the Virtualized Infrastructure, Software Defined Networking, Network Function Virtualization, Virtual Network Functions, and Orchestration.
- Pioneered the CDN-in-a-Box based on Centos 7.x, using Openstack to deploy a complete CDN in a virtualized platform using a BASH script that calls the various framework components of Openstack, including Nova Compute, Neutron Networking, and Cinder block storage.

SENIOR CLOUD INFRASTRUCTURE PRESALES SYSTEM ENGINEER – CITRIX, *Silicon Valley, CA.*   05/2013 – 08/2014

Pre-sales role responsible for technical relationships with customers, prospects and partners to showcase Citrix Networking product solutions (Netscaler, Repeater, Cloud Bridge, NetScaler Gateway and Application Firewall) while cross-domain supporting XenServer, XenApp, XenDesktop, XenMobile and Sharefile. Supported the wider sales team by building and delivering proofs of concept, demonstrations and delivering educational sessions with partners and customers. Supported sales teams to answer technical questions and strategize appropriate value propositions and product pitch tailored to the audience at hand.

- Supported post sales efforts by taking control of support cases and shepherding them through to resolution, while using all available troubleshooting resources including knowledge bases, log files, cli commands and tcpdump/Wireshark traces.
- Pioneered the architecture of the Private Cloud, Public Cloud and Hybrid Cloud.
- Documented and developed 20 deployment guides to scale others to succeed.
- Employed hands-on, deep understanding of all layers of the OSI Model, Protocols - HTTP, HTTPS, FTP, SNMP, SMTP, SIP, IMAP, DNS, NTP, SSH, ARP, BGP, ICMP, IPsec, MPLS, OSPF, RIP, TCP/IP, etc.
- Proficient at all layers of the OSI model including knowledge of L3-L7 Routing and Switching, both physical and virtual, High Availability and Global Server Load Balancing.

SENIOR TECHNICAL MARKETING MANAGER – CITRIX, *Silicon Valley, CA.*   08/2007 – 05/2013

Recruited, mentored and managed a rock star 5-person technical marketing team in Bangalore, India for the Citrix partner program, with a focus on Desktop and Application Virtualization, Cloud, Network and Mobility ecosystems. Spearheaded innovation and developed proofs of concept for multiple programs, platforms, and customers.

- Pioneered hands-on proof-of-concepts for key customers VDI, CloudBridge, CloudGateway, CloudBurst, Netscaler VPX, XenDesktop, XenApp, XenServer, Amazon VPC, Rackspace, and Softlayer.
- Architected and built the INDUSTRY'S FIRST proofs-of-concepts for:
    - Software Defined Networking with partner Nicira (now VMware NSX) using their "Virtual Distributed Switch" technology.
    - Virtual Routing and Switching (SDN) with partner Vyatta.
    - "Hybrid" cloud in AWS using Citrix technology.
    - "Virtual Network" stack running on XenServer for Citrix Products as VM's.
- Pioneered the first AWS CloudFormation Template in JSON format, for spinning up a Citrix XenApp farm in AWS, based on AMI's for Citrix products I created in AWS and PowerShell Scripts.

- Authored the first deployment guides for building Citrix deployments in Amazon AWS VPC and Amazon AWS using the Citrix NetScaler VPX (Amazon AMI).
- Architected, built and maintained the first set of Citrix products into Amazon Machine Images (AMIs).
- Architected and built the industry's first "Open Source Router" proof of concept using BGP for XenServer – later earning the industry term "Software Defined Networking" (SDN).
- Spearheaded research and development of new product proof of concepts that later became mainstream Citrix products – CloudGateway, CloudBridge, SDN – Virtualized Networking and Routing.
- Led the integration, validation and certification of Citrix products in partner programs, including the completion of test criteria and creation of more than 20 deployment guides, whitepapers, solution guides, training guides, wikis, blogs, video tips and performance benchmark studies.

DIRECTOR OF TECHNICAL AND PRODUCT MARKETING - NETCONTINUUM, INC., *Silicon Valley, CA.* 12/2005 – 09/2007

Led Technical Product Management and Marketing efforts for startup NetContinuum (now Barracuda), which provides application controllers to deploy, secure, and manage enterprise web applications, including firewalls, gateways, and GZIP compression.

- Achieved #1 Product Rating 2006 – Web Application Firewall, Forrester Research – against Citrix, F5, Imperva, Breach, others.
- Doubled the customer count to 220; revenue to $7.7M.
- Secured key customers JP Morgan, Intel, AMD, RBS, LG, Novartis, SBC/AT&T, Skye Italia, Telecom Argentina, and others.
- Authored Web Application Firewall and Application Delivery Controller Performance Characteristic Test Plan; gained adoption by industry standards organization WASC (Web Application Security Consortium), a first for the computer industry. (www.webappsec.org).
- Participated in Open Web Application Security Project (www.owasp.org).
- Secured news coverage of product by Forrester Research, Gartner, 451Group, Butler Group, Burton Group, Network Computing, Secure Enterprise Magazine, Dark Reading, CRN Tech Magazine, Network World Magazine.
- Authored and published competitive sales playbook, and more than 10 competitive alerts, detailed competitive briefs, reports, white papers, design implementation guides, interoperability and training collateral.

SENIOR TECHNICAL PRODUCT MARKETING MANAGER - EXTREME NETWORKS, INC., *Silicon Valley, CA.* 03/2004 – 11/2005

Extreme Networks is a $1B publicly traded company which designs, develops, and manufactures wired and wireless network infrastructure equipment and develops the software for network management, policy, analytics, security and access controls. Held progressive positions of responsibility starting as a Technical Marketing Engineer, later promoted into Product Management, supporting Engineering, Sales, and Marketing of the Sentriant™ security product and Extremeware XOS™ CLEAR-Flow product lines.

- Created the Sentriant™ product roadmap, release schedule, feature set validation, MRDs, PRDs, and detailed functional specifications to deliver and execute on time in a 3-month window.
- Spearheaded Sentriant™ vision, positioning, messaging to the field; interfaced with media and analysts to generate more than 20 news stories and product features.
- Individually created intellectual property in the area of protection of the VoIP infrastructure using the Sentriant™ product and Extremeware XOS™ CLEAR-Flow; secured US patent # 8,255,996.
- Authored and published the first Extreme Networks competitive sales playbook, plus more than 30 competitive alerts, detailed competitive briefs and reports, white papers, design implementation guides, interoperability documents and training collateral.

SENIOR TECHNICAL MARKETING ENGINEER - CISCO SYSTEMS, INC., *Silicon Valley, CA*   01/2000 – 03/2004

Client-facing role in the Mobile Wireless Group supporting mobile wireless operators in America, Asia and Europe, as well as partners Motorola, Lucent and Siemens, and 30 Field SE's and CSE's. Provided on-site customer support and consultation to help debug complex product problems. Also responsible for the complete system level solution and technical marketing efforts, including delivering the technology to the account teams, driving the strategy, evangelizing the vision, and building confidence in the field. In conjunction with the 10-person Product Marketing team, developed, PRD's, MRD's, Concept Commits, Execution Commits, Business Plans, Program Plans, the overall marketing plans, commitments and schedules.

- Led product responsibilities for the Cisco Mobile Exchange (CMX) including Layer 2/Layer 3 Routing & Switching, Content Services Billing & Charging Gateway (CSG), Persistent Storage Device (PSD), Lawful Intercept (LI), and Network Management Systems (NMS/OSS) for prepaid and postpaid content billing for the Mobile Wireless customers and their NMS/OSS Systems.
- Delivered presentations and training events at 20 Cisco sponsored TLP, SEVT, VOD's, and Customer EFT and Partner Site Visits.
- Prepared more than 20 Solution Architecture White Papers, Tech Notes, Best Practices, Engineering Documents, Training Documentation, FAQ's, TOI Documentation, Usability Reviews, Delta Feature Competitive Specifications, System Functional Specifications, and RFP/RFI/RFQ proposals.

- Built and maintained the multi-million-dollar Mobile Wireless lab in building 14 at the San Jose Cisco Campus.
- Established the MWG TME Lab in a separate DMZ/PSS location on the Internet to enable the interoperability of the MWG solutions with NMS/OSS Partners and provide a venue for performing live demos.

EDUCATION

Pepperdine University, Degree: Master of Business Administration (MBA), Field of Study: Business Administration, From: 08/1989 To: 05/1991

California State University Chico, Degree: Bachelor of Science (B.S), Field of Study: Computer Science, From: 08/1982 To: 05/1987

TRAINING & CERTIFICATIONS

- Certified Information Security Services Professional (CISSP) ISC2 **(674969)**
- Certified Cloud Security Professional (CCSP) ISC2 **(674969)**
- AWS Architect Associate
- Certified Secure Email Gateway Sales Professional (CSSP)
- Certified DbProtect Instructor (Database Security)
- Carbon Black Essentials (MDRe)
- Citrix Certified Sales Specialist (CCSS)
- INFOSEC Professional (Certified by NSA & CNSS)

- Cisco IDS Specialist (CIDS)
- Cisco VPN Specialist (CVPN)
- Cisco PIX Firewall Specialist (CPIX)
- Cisco Certified Security Professional (CCSP)
- Cisco Certified Network Professional (CCNP)
- Cisco Certified Design Professional (CCDP)
- Cisco Certified Network Associate (CCNA)
- Cisco Certified Design Associate (CCDA)

PUBLICATIONS

- **Technical Marketing II, The Quiet Poison Release -** Book – Amazon
  https://www.amazon.com/Technical-Marketing-II-Poison-Release/dp/098225704X/
- **Learning Windows Server Hyper-V 2016 -** Video - Packt Publishing
  https://www.packtpub.com/virtualization-and-cloud/learning-windows-server-hyper-v-2016-video
- **Getting Started with XenDesktop 7.x -** Book - Packt Publishing
  http://www.packtpub.com/getting-started-with-xendesktop-7-x/book
- **Optimizing Citrix XenDesktop for High Performance -** Book - Packt Publishing https://www.packtpub.com/virtualization-and-cloud/optimizing-citrix-xendesktop-high-performance
- **Getting Started with XenApp 6.5 -** Video - Packt Publishing
  http://www.packtpub.com/getting-started-with-citrix-xenapp-6-5/video

PATENTS

- Network Threat Detection and Mitigation - US Patent # 8,255,996
- VoIP Security - US Patent # 8,295,188
- Detection and Mitigation of Rapidly Propagating Threats from P2P, IRC And Gaming: US Patent # 8,117,657

INDUSTRY ASSOCIATIONS

- Cloud Security Alliance
- ISSA
- ISACA

- FBI InfraGard
- *con's
- Illuminati Party

- BSides
- RMISC
- dc719