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Representing many years of information technology endeavors with a current emphasis on security and how it can effectively protect business concerns and assets with sufficient enough controls to thwart the risks that are present in today's links to the world.

Current efforts include – Providing security consulting expertise to the world's leading credit card compliance corporation, engaging various financial payment industries and assisting them with security solutions that reduces risk and exposure for the most coveted data flow that exists today in the world.

Security Related efforts:

- Lead a 13 month security assessment effort globally for American Express that included both a Data Security assessment and a voice security assessment
- Lead a VoIP security assessment for a major financial institution and providing them with long term recommendations in regards to reducing risk involved with this solution for applications that involve extremely sensitive data.
- Provide security consulting services for a major theme park endeavor in areas that include PCI DSS remediation solutions, security extend the use of their wireless options, establishing security guidelines for their major .NET infrastructure and more.
- Lead a selected team of engineers in guiding Siemens with their efforts to obtain the necessary US governmental (DISA) security certification to market their VoIP solution to the military and other agencies.
- Assisted with the building of the SecureLogix telephone firewall – TeleWall, its beta testing/installation, training certification, second generation design, pre-sales/post sales assistance as required.
- Provided security consulting services for American Express that including complete security responsibility for all web facing financial transaction based applications, third party connections, various types of B2B (business 2 Business) links/portals, application security design review, encryption solutions that covered data in transport and data at rest, encryption key management methodologies, security policy/procedure/standard generation/implementation/enforcement (compliance), new security initiatives such as SSL accelerators, biometrics authentication, single-sign-on initiatives, and more
- Assist various small business units with such things as firewall implementations, antivirus implementations, secure wireless implementations, various security related incidents (compromised equipment)
- Performing security certification efforts for the US Army that included security testing approximately 10,000 network devices globally to ensure compliance, security certification efforts for a major re-supply application build on legacy operating systems
- Security lead for the US government experimental electronic voting that included interpreting existing electronic election requirements, building new requirements, building tests to validate each functioning component, validating the PKI (Public Key Infrastructure) implementation, validating/testing the VeriSign Digital Certificate storing solution, validating/testing the various interfaces for the creation of an electronic ballot
- Security lead for security testing a major web application for the DOI (Department of Interior) that including a thorough security assessment with penetration testing of the web server and associated application.

- Security lead for an agency of the DOL (Department of Labor) that included validating/testing of their VoIP solution, internal LAN network and various other components
- Security consultant for a Florida state agency that included complete review of their security architecture, incorporation of various new regulations such as HIPAA, recommending procedures for providing security to their application development process, provide recommended security architecture changes
- Assist and advise various organizations through the United States and other countries by reviewing items such as strategic plans for security - perimeter security mechanisms.

Other experience includes:

- Manager of Technical Services for a large medical group in the Northwest, built, designed and installed one of their first LANs based on all fiber optic transport
- Telecommunications engineer for the most recognized world health organization, lead various initiatives such as ATM (Asynchronous Transfer mode) that would carry voice, video & data, incorporated TCP/IP into all major telecommunications elements, integrated voice mail into email, designed, setup and supported several call centers
- Network Engineer for one of the most recognized world health organizations, was key individual designing, installing and supporting major TCP/IP - LAN/WAN, assisted with the design, implementation and support of FDDI backbone
- System Programmer for a large jewelry/ring manufacture, leading the conversion from DOS to MVS, design, install, & support CICS infrastructure including the first relation database applications, developed interface routines for collecting accounting information for IDMS database systems, developed numerous high level subroutines to offload many mundane services for application development teams, developed a spooling subsystem for legacy operating system

Various technology experience:

- Operating systems – Windows NT, Windows XP, Windows 2000 Server, Windows 2003 Server, Unix/Linux/Solaris/Unixware/AIX,AT&T BSD, DEC VMS, IBM – MVS, DOS, others, Cisco IOS, Tandem, S/38
- Various networking protocols/equipment – LAN, WAN, TCP/IP, AppleTalk, DECNet, Layer 2 & Layer 3 switching, Layer 2 bridging, Layer 3 routing, Cisco LAN/WAN equipment, Foundry Network LAN/WAN equipment, Xyplex LAN equipment, Cisco Routers, IGRP, EIGRP, OSPF, RIP, VLAN configuration, Load balancers, LAN analyzers, VPNs.
- Various security testing - Nessus, Nmap, nbtstat, Tracedump, MBSA, MSRT, ISS, GFI Languard, Harris Stat Scanner, Newt, TigerTools, PhoneSweep, TeleSweep, Toneloc, RAT, OAT, OWASP web tools, HTTP Sniffer, Nikto, HTTPGet, wget
- Data protection/encryption – DES, 3DES, AES, SSL, TLS, IKE (Diffie-Hellman(key exchange)), MD4, MD5, Blowfish, SHA-1, SSH, PGP, GPG, PKI, WEP
- Perimeter protection – Firewalls (PIX, Sidewinder, Checkpoint FW-1, Raptor, TeleWall, NetScreen, NIS, ZoneAlarm, Microsoft ISA, Data Tracker 2700, IPTables)

Additional information can be provided upon request