

# Andrew Shumate, CISSP, CISA

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*An inspired innovator and motivational leader with extensive information security consulting, auditing, and project management experience who is able to effectively communicate security requirements and their alignment with business needs with system owners and stakeholders, from technical personnel to senior leadership who is also able to identify and solve problems early and find alternative solutions when normal courses of action are unavailable.*

## CAREER HIGHLIGHTS & ACCOMPLISHMENTS

### LEADERSHIP

- While attached to Navy Information Operations Command Norfolk, led teams of analysts on over 90 network assessments of Navy networks worldwide including the operational test and evaluation of newly acquired systems supporting Chief of Naval Operations.
- Developed training curriculum designed to produce top level network defense personnel.
- Information Technology Integrated Process Team lead, successfully consolidated the Information Technology and Information Assurance operations of seven remote sites into a single operational command.

### OPERATIONS MANAGEMENT

- Managed red and blue team operations from planning through reporting, applying cyber threat intelligence reporting to provide realistic and relevant testing.
- Managed the development of a test environment for training of personnel and testing of tools.
- Managed the technical refresh of 358 computer workstations across 12 buildings within a four-day period with no loss of productivity.
- Tracked the Information Assurance and Personally Identifiable Information awareness training compliance for 2,543 service members across seven geographically dispersed sites.

### STRATEGIC PLANNING

- Developed a new information security gap assessment product offering for the CDW Security Team based on the NIST Cyber Security Framework.
- Provided risk assessment for planning the safe testing and evaluation of in-place Industrial Control Systems to ensure that testing did not negatively affect unit mission readiness.
- Revitalized Navy Blue Team's Computer Network Defense Computer Network Training Team course by updating job qualification requirements, developed a mobile training curriculum, and consolidated training and assessment teams saving the Navy over \$250,000 in annual travel costs.
- Created a new qualification process for Navy Blue Team network operators, applying lessons learned from aviation maintenance management, which increased the reliability and quality of reports to commands and provided actionable information to senior leadership.
- Provided evaluation of commercial and open source software for use in operation planning, penetration testing, and risk analysis.

- Established metrics to provide measures of effectiveness to leadership for future process improvement planning.
- Assisted in the development of Navy Blue Team support of the Navy Cyber Security Inspection program.
- Participated in continuous process improvement events increasing the efficiency of maintenance operations at Fleet Readiness Center Mid-Atlantic under the Naval Aviation Enterprise AIRSpeed program.

### **ORAL & WRITTEN COMMUNICATION SKILLS**

- Instructed Linux+ curriculum for eight people with 100% exam pass rate.
- Direct report to executive leadership regarding Information Assurance compliance.
- Regularly briefed senior executive leadership on findings of red and blue team assessments in both technical and non-technical forums.
- Provided technical findings with remediation recommendations to system owners.
- Routinely lectured at Expeditionary Warfare Training Group Atlantic on the topic of Computer Network Operations fundamentals.
- Developed Command IT Security policies used as the framework for developing command IT instructions across Fleet Readiness Center Mid-Atlantic.
- Developed an all-encompassing CTF 1030 standard operating procedure for performing Blue Team Vulnerability Assessments.
- Assisted several organizations with the design and development of their Information Security Management System ultimately leading to ISO 27001 Certification.

### **SECURITY MANAGEMENT**

- As an Information Assurance Manager, oversaw user security compliance training for over 2,543 users and maintained over 430 assets.

### **TALKS AND PRESENTATIONS**

- *Cyber War Stories*, CarolinaCon 11, Raliegh, March 2015
- *Building the Poison Apple Pi*, BSidesDC, Washington, D.C., October 2015
- *Cryptkids Crypto Lab and CTF Primer*, BSidesDC, Washington, D.C., October 2017

### **PROFESSIONAL EXPERIENCE**

**CDW**

**May 2017 – Present**

**Senior Consulting Engineer, Information Security**

- Works with clients to assess gaps in their information security programs based on different Information Security Frameworks and offer recommendations on how they can improve their programs while aligning their information security and business needs
- Develops information security policies for clients that are well aligned with their organizations' needs while helping them achieve the goals of meeting requirements of various frameworks and regulations
- Works with sellers to find solutions to customer information security needs when there is no readily available service offering

**Pirate and Mermaid Vacations**

**November 2015 – Present**

## **Co-Owner and President**

- Manages fiscal responsibilities for the company including: payroll, accounting, budgeting, capital expenditures and financial reporting
- Maintains corporate records and filings
- Ensures compliance with regulations for licencing and contractual relationships
- Responsible for negotiating and managing contractual relationships

## **PivotPoint Security**

**July 2014 – May 2017**

### **Senior Information Security Consultant and Auditor**

- Work with clients to assess/develop Information Security Management Systems that align with different Information Security Frameworks (e.g., ISO-27001, FedRAMP, NIST/FISMA, ISO-22301) and complies with key Regulatory Compliance Frameworks (e.g., HIPAA, PCI, PII, NERC, and SOX)
- Work to assess and improve network security via architecture reviews, targeted gap assessments, network vulnerability assessments, and network penetration testing
- Performed remote penetration tests, vulnerability assessments and remediation validation on more than 35 client networks
- Performed Information Security Management System audits for 13 clients to achieve ISO 27001 certification
- Guided clients through the FedRAMP Certification and Accreditation process. Principal responsibilities included creation of System Security Plans, policies, procedures, and other mandated compliance artifacts
- Provided information security consulting services to clients across a broad range of requirements leveraging a wide array of technical and project management skills
- Supported clients representing a wide array of verticals and size from small regional businesses to large multi-national law firms

## **U.S. Navy**

**Aug 1994 – Aug2014**

### **Computer Network Defense Analyst**

**May 2009 - July 2014**

- Responsible for planning and leading Computer Network Defense assessments of Navy networks worldwide, helping System Administrators find vulnerabilities and secure them. Responsible for the testing and evaluation of Computer Network Defense (CND) assessment tools used by the Navy Blue and Red Teams, and research and development of tools techniques and procedures used by Navy Blue and Red Team assessment teams
- Provided training for System Administrators in Computer Network Defense to make them more aware of network vulnerably and mitigation strategies to assist them in securing their networks
- Served as Information Operations Subject Matter Expert for service and joint military exercises and war games to provide the training audience with a realistic cyber warfare training environment
- Provided written analysis of network assessments and current security trends to provide senior leadership with information needed to create or change Navy network policy
- Planned and performed operational tests and evaluations of newly acquired systems in support of Commander Operational Test and Evaluation Force

## **Information Assurance Manager**

**April 2006 - May 2009**

- Responsible for leading a team of three other personnel in the Fleet Readiness Center Mid-Atlantic (FRC-MA) site Oceana automated data processing office in handling all command specific information assurance needs
- As the Information Assurance Manager for FRC-MA, was responsible for leading an Integrated Process Team tasked with the alignment of the IT and IA policies of seven sites into a single command
- Ensured that all physical and personnel security requirements for legacy and Navy Marine Corps Intranet (NMCI) were met in accordance with governing policies.
- Responsible for all security requirements including DIACAP for all non-NMCI information systems
- Disciplinary responsibility for policy violation or misuse of NMCI accounts or hardware (PDA's, etc)
- Point of contact for NCIS, CTF-CND and NAVCIRT for all Legacy and NMCI site security related incidents
- Implemented the command information security program for site-specific security policies and procedures and responsible for user security awareness training for all non-NMCI systems

## **COMMUNITY INVOLVEMENT**

- Develops and facilitates the BSidesDC CryptKids cryptography and capture the flag competition which are both designed to educate children ages 7 – 17 in codes, ciphers, and computer security fundamentals
- Member of the initial planning committee for BSides 757
- Founding member of the DC757 DEF CON group

## **CERTIFICATIONS**

CISSP, July 2014  
 CISA, April 2015  
 PECB Certified ISO/IEC 27001 Lead Implementer, April 2015  
 Certified Ethical Hacker, November 2012  
 Core Impact Certified Professional, August 2012  
 CompTIA Security+, October 2008  
 CompTIA Linux+, June 2007  
 Microsoft Certified Systems Engineer (Windows 2000), October 2003

## **EDUCATION**

University of Maryland University College  
 Master of Science, Cybersecurity Policy, 2012

University of Maryland University College  
 Master of Science, Information Technology: Information Assurance, 2011

Naval Postgraduate School  
 Master Certificate, Information Systems and Operations, 2006

Strayer University  
 Bachelor of Science, Computer Networking, 2005