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# JACOB DANIEL MCCARTY, CISSP

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137 Teague Lane, Martinsburg, WV 25404 • +1 (304) 376-2673 • [jdm@jacobmccarty.info](mailto:jdm@jacobmccarty.info)

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## OBJECTIVE

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Obtain permanent placement in Information Assurance, Software Security and Design, Computer Forensics-related, Technical Proposal Support or Project Management position in an organization seeking a highly motivated, dependable individual with excellent written communication skills, in-depth knowledge of software development, Disaster Recovery and Business Continuity, NIST standards and regulations, Certification and Accreditation requirements, Security Authorization requirements, great appreciation for computer security and computer forensics skills.

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## SECURITY CLEARANCES

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Cleared, contact me for specific details

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## EDUCATION

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<b>Masters of Science in Computer Science</b> College of Engineering and Mineral Resources, ABET Accredited West Virginia University, Morgantown, WV	<b>05/2007</b>
<b>Graduate Certificate in Computer Forensics</b> College of Engineering and Mineral Resources, ABET Accredited West Virginia University, Morgantown, WV	<b>05/2007</b>
<b>Bachelor of Science in Computer Engineering</b> Emphasis Areas: Communications and Signal Processing; Computers College of Engineering and Mineral Resources, ABET Accredited West Virginia University, Morgantown, WV	<b>05/2005</b>
<b>Bachelor of Science in Electrical Engineering</b> Emphasis Areas: Communications and Signal Processing; Computers College of Engineering and Mineral Resources, ABET Accredited West Virginia University, Morgantown, WV	<b>05/2005</b>
<b>Associate of Arts in Electrical Engineering</b> Potomac State College of West Virginia University, Keyser, WV	<b>05/2002</b>

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## PUBLICATIONS

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McCarty, Jacob D. "Specifying Security Requirements: Improvement for IEEE Standard 830." *WVU Scholar*. West Virginia University, 2007. Web. 15 May 2007.  
<<http://hdl.handle.net/10450/5101>>.

**Abstract:** This paper presents a concept on how the software requirements specifications template provided by IEEE Standard 830 could be updated to ensure that security is analyzed during the early stages of the software development lifecycle. This improved security requirement in the software requirements specifications will ensure that software developers will have a more clear understanding of how to protect digital information.

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## PROFESSIONAL CERTIFICATIONS

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<b>Security+</b>	<b>08/2010</b>
Computing Technology Industry Association, Oakbrook Terrace, IL	
<b>CISSP</b>	<b>09/2010</b>
International Information Systems Security Certification Consortium Vienna, VA	

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## PROFESSIONAL TRAINING

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Security University CISSP Boot Camp	07/2010
DHS OIS Critical Control Review Training	05/2009
DHS OIS Document Review Training	05/2009
Potomac Forum New NIST Security Controls Publications SP 800-53 R3 Workshop	01/2009
West Virginia University New Leaders Program	10/2005

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## PROFESSIONAL SKILLS

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<b>Programming Languages</b>	C, C++, HTML, Visual Basic.NET, VBScript, CSS, SQL
<b>Programming Software</b>	Borland Turbo C, Microsoft Visual C++ 6.0, Microsoft Visual Studio .NET, Microsoft Visual Studio 2005, Macromedia Dreamweaver
<b>Security Software</b>	Multiple Antivirus Software Suites, Norton Partition Magic, Norton Ghost, HASH Software, AccessData FTK, Runtime Software GetDataBack (NTFS & FAT), BelArc and BelManage, KillDisk, eDATA Unerase, eIMAGE Recovery, PS Tool Kit, Disk Edit
<b>Computer Hardware</b>	x86 and x64 based hardware, Sun, IBM Blades, HP and Dell Servers
<b>Computer Networking</b>	Setup and Maintenance of Wired and Wireless Networks
<b>Microsoft Windows</b>	7, Vista, XP, ME, 2000, 98SE, 98, 95, 3.11, DOS
<b>Microsoft Office</b>	2007, 2003, XP, 2000, 97: Word, Excel, Power Point, Outlook, Access

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## EMPLOYMENT

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### Integrated Communication Solutions

Address: 5260 Westview Drive, Frederick, MD 21703

Supervisor: Vicki Lord

Phone: +1 (301) 695-8800

Security Specialist II

10/2010-Current

- Work with the proposal team to ensure that proposals written by ICS meet the technical requirements and develop technical solutions for ICS proposals
- Created a technical solution for a DHS Security Program including, ISSO roles, ISSA roles, Cyber Incident Response Command Center, and other security related solutions
- Created a proposal for Institute of Museums and Library Services documentation task order
- Worked on a Department of Transportation Command Center Proposal
- Performed the ICS corporate security authorization on their enterprise operations facility based on NIST and FISMA standards and provided recommended mitigations for weaknesses

### J. W. McCarty Services

Address: 2670 Berlin Road, Weston, WV 26452

Supervisor: Janice McCarty

Phone: +1 (304) 269-3747

Service Personnel

06/1998-Current

- IT Workstation Support and configuration as well as developing and maintaining an accurate backup regiment to ensure proper recovery in the event of a disaster or incident resulting in data loss
- Ensuring the company remains PCIDSS compliant by implementing any weakness mitigation factors or properly reducing any risks
- Responsible for creating and maintaining corporate security plan and completing the annual self-assessment for submission to external auditors

### Defense Logistics Agency CTR for Integrated Communication Solutions

Address: 5260 Westview Drive, Frederick, MD 21703

Supervisor: Vicki Lord

Phone: +1 (301) 695-8800

Security Specialist II

10/2010-11/2010

- Responsible for developing security documentation for DLA's Enterprise Business Suite (EBS)
- Developed DIACAP compliant System Security Plan, Security Architecture, Configuration Management Plan, Contingency Plan
- Responsible for reviewing and updating DLA's EBS Documentation Suite and working with the System Architects ensuring correct DIACAP requirements are included in the design and configuration management processes

### Department of Transportation CTR for Integrated Communication Solutions

Address: 5260 Westview Drive, Frederick, MD 21703

Supervisor: Vicki Lord

Phone: +1 (301) 695-8800

Security Specialist II

07/2010-09/2010

- Responsible for performing a Security Authorization on the Department of Transportation Common Operating Environment (COE), Remedy, Common Area Network, and Financial Management System (FMS)
- Perform security test and evaluations on the DOT systems and make recommendations for improvement to DOT's Contingency Plan for the COE and FMS systems
- Provide a recommendation to the DOT COE and FMS systems' Authorizing Official based on the Security Test and Evaluation of the systems

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### EMPLOYMENT (CONTINUED)

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#### United States Coast Guard CTR for Enterprise Information Services

Address: 408 Coast Guard Drive, Kearneysville, WV 25430

Supervisor: Kari Albertson Matthews

Phone: +1 (304) 433-3220

Security Engineer II

08/2008-07/2010

- Responsible for establishing an information and assurance model and certification and accreditation testing model and process for the USCG Operations System Center based on NIST 800-30, NIST 800-37, NIST 800-39, NIST 800-53, NIST 800-53A, DHS IA Policy and DoD IA Policy
- Perform more than 50 ST&Es on the systems located at the USCG Operations System Center in Windows, Unix and Linux environments, review contingency plans for accuracy, perform contingency tests. Perform risk assessments for information system weaknesses and provide security requirements based on DoD and DHS policies and guidance.
- Lead the FY2008 FISMA task which received a 99%, the highest percentage the USCG had ever received

#### United States Coast Guard CTR for Perot Systems and Government Services

Address: 408 Coast Guard Drive, Kearneysville, WV 25430

Supervisor: Michael Hansrote

Phone: +1 (304) 264-2611

Functional Area Manager / System Administrator II

05/2007-05/2008

- Responsible for creating and maintaining a Contingency and Disaster Recovery Plan (CDRP) Template for more than 50 United States Coast Guard Major Applications
- Developed a secure electronic password management system and software library management system for the Alternate Processing Site
- Designed, established and migrated 33 system to an Alternate Processing Site for the United States Coast Guard Operations System Center at another USCG facility that can handle high, moderate and low availability systems in accordance with NIST 800-53 and DHS 4300A requirements
- Perform CP and DRP Training and Testing for more than 50 USCG major applications for both certification and accreditation and annual assessments, while helping to ensure that the USCG received a 97%, the highest percentage the USCG had ever received, on the FISMA Performance Plan.

#### United States Coast Guard CTR for Quality Software Solutions Group

Address: 408 Coast Guard Drive, Kearneysville, WV 25430

Supervisor: Larry Pitzer

Phone: +1 (304) 264-3821

Intern

05/2006-05/2007

- Perform research and write a white paper to the USCG TISCOM group on Lotus Domino with specific focus on port 1352 security and submit the firewall request based on defined business requirements.
- Support the certification/accreditation effort and update/maintain the documentation suite for EPMO and DPMS
- Perform development and acceptance testing on the Asset Tracking and Organizational Management (ATOM) System and Operations Systems Center System Availability (OSCSA) tracking System
- Harden Windows 2k3 servers against the DHS Hardening Guidelines and review/analyze the Retina/NESSUS scans

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## EMPLOYMENT (CONTINUED)

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### West Virginia University

Address: P.O. Box 6070, Evansdale Drive, Morgantown, WV 26506

Supervisor: Dr. Y. V. Ramana Reddy

Phone: +1 (304) 293-0111

Graduate Teaching Assistant / Student

08/2002-05/2007

- Perform Digital Forensic work and analysis on multiple versions of Windows and Linux, as well as, performing research on gather of evidence in a network environment and eradicating the incident from the network.
- Write white papers on performing digital forensic investigations on Windows Vista and XP
- Teach Software Engineering techniques and procedures to Undergraduate students based on IEEE standards
- Perform Research and write thesis on including security requirements during the requirements specifications phase of the software development life-cycle
- Work with the WVU ISSO to develop information security management policies and procedures

## ORGANIZATIONS

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Mountaineer Boys State	1999 - Current
Sons of the American Legion	2000 - Current
Potomac State College of WVU Alumni Board	2006 - Current
West Virginia University Alumni Association	2007 - Current
Mountaineer Athletic Club	2007 - Current
Institute of Electrical and Electronics Engineers Computer Society	2008 - Current
Information Systems Security Association	2008 - Current
Old Gold Club	2010 - Current
Mountaineer Maniacs	2003 - 2006
Potomac State College Board of Governors	2002

## AWARDS

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OSC Team of the Quarter	09/2009
Rotary International Service Above Self Award	04/2002