

# **Dwayne N. Zechman**

**Senior Systems Analyst, Technical Manager, Network Engineer, Programmer**

## **OBJECTIVE**

To find interesting, challenging technical work in the Northern Virginia area which can include, but is not limited to, that which requires a TOP SECRET clearance. Please be aware that there is a strong preference to perform any work on a "Corp-to-Corp" or alternately "1099" contract basis.

## **EXPERIENCE SUMMARY**

Mr. Zechman is an experienced Systems Analyst and respected Technical Manager with expert knowledge of both Microsoft Windows and multiple UNIX environments at all levels from architectural design and planning, to integration of commercial products, to support, troubleshooting, problem solving, and smooth interoperation of disparate systems.

Mr. Zechman is also a skilled Network Engineer well versed in the TCP/IP protocols, LAN and WAN design and deployment, advanced router configuration, network security analysis, perimeter security and firewalls, intrusion detection, and both government-grade and commercial-level encryption products.

Mr. Zechman holds an M.S. in Computer Science with a concentration in Systems Programming, with additional training and certifications on key technologies. Because of his academic background and general interest in all things technical, Mr. Zechman's skill set features the rare combination of a very broad range of knowledge and experience with a very deep subject matter expertise in many of those key areas (such as Networking, Windows, Unix, Application Programming, and Security) and the ability to quickly learn new technologies whenever needed.

## **EDUCATION**

M.S.; Computer Science; Shippensburg University  
B.S.; Computer Science; Shippensburg University

## **PROFESSIONAL/TECHNICAL TRAINING**

Microsoft Certified: Azure Security Engineer Associate  
Microsoft Certified Systems Engineer (MCP, MCSA, MCSE)  
TACLANE Administration; General Dynamics  
Sectera INE Administration; General Dynamics  
"Intrusion Detection In-Depth" Curriculum; SANS  
Motorola NES Administration; Motorola (now General Dynamics)

## **SECURITY CLEARANCE**

Top Secret with SSBI; State Dept; 03/2020

Status: Active

## **PROFESSIONAL RECOGNITIONS**

Certificate of Appreciation for Outstanding Contributions; Drug Enforcement Administration; 09/1999

## EXPERIENCE

### **Zechman Technologies, inc.**

**04/2010 – Present**

#### *Mobile Game Development*

*08/2019 – Present*

Mr. Zechman, in partnership with game inventor KohnGames, branched out into Android development to author and publish 3 games based on real-world card games invented by John H. Kohn. This work is ongoing and development is already underway for Apple IOS adaptations, as well as new mobile adaptations of two of Kohn's board games.

#### *Migration Planning*

*Hill Associates Corporation (6-mon contract)*

*05/2017 – 12/2017*

Mr. Zechman was contracted to assist the Department of Justice in planning and executing the migration of the DOJ's Trusted Internet Connection (TIC) from its Rockville, MD location (DOJ was shutting down the entire site) and transitioning into a managed service hosted by AT&T. Specific duties were to break down the complex TIC into discrete components and design migration and testing plans for each one, with a focus on minimizing down-time and avoiding any need for system changes by any of the DOJ Component organizations who use the TIC.

#### *Microsoft Active Directory Scripting/Automation*

*Drivestream, inc. (6-week contract)*

*08/2014 – 09/2014*

*(with multiple support follow-on contracts)*

*01/2015 – 10/2016*

Mr. Zechman was contracted to assist a Drivestream client with automating the process of creating, editing, and terminating AD accounts using structured data exported from the client's Human Resources system. The program written includes multiple forms of feedback, including formatted emails and structured data fed back into the HR system. It also features the ability to automatically assign membership to security groups and distribution lists, create and configure Exchange mailboxes, set a randomly-generated initial password, and address issues that arise from similar or identical employee names.

#### *Linux/Windows Systems Engineer*

*Booz Allen Hamilton Inc. (6-mon contract)*

*11/2012 – 05/2013*

Mr. Zechman was contracted to assist the US Air Force Office of the Civil Engineer (A7CRT) with the implementation of the NexGenIT platform (featuring IBM TRIRIGA) as a part of a large-scale modernization and cost-savings initiative. Specific duties included the building of Red Hat Linux systems, installing and configuring the TRIRIGA application in a classic three-tier architecture, and performing extensive security review and remediation of approximately 80 Linux and Windows systems across a variety of development, testing, validation, and pre-production environments.

#### *Network Engineer & Administrator*

*Hill Associates Corporation (6-mon contract)*

*12/2011 – 04/2012*

Mr. Zechman was contracted to assist the Office of Financial Research, a newly-created part of the Department of the Treasury, in the initial design and deployment of its network infrastructure, which includes high-bandwidth applications, wireless deployment, and secure interaction over the Internet with entities outside of Treasury. Specific accomplishments include implementation of MAC Address Bypass (MAB) protocol using Cisco ACS server, design and implementation of switch ACL's, the initial implementation of QoS to lay a foundation for VoIP traffic being carried by Treasury's WAN, and a tiny bit of professional singing.

*Software Engineer/Architect*

*Objective Interface Systems, Inc. (1-yr contract)*

06/2010 – 06/2011

Mr. Zechman was contracted to develop drivers for both Windows XP and Windows 7 using C and the Microsoft Windows Driver Kit along with low-level x86 assembly code. Additional duties included management and maintenance of the corporate VoIP (SIP) telephone system.

**Entwined Technologies, Inc.**

**11/2008 – 02/2010**

*Lead Engineer/Architect*

*Drug Enforcement Administration: Firebird Project: Operations Section (SIO)*

Mr. Zechman was the Lead Engineer/Architect and Technical Manager of the six-person Tier 3 support group ("Emergency Response Team") for the Firebird Operational Support Contract (a contract key position) and provided team oversight to the Tier 2 support group. Primary duties were to interact with both client representatives and various Engineering groups on a regular basis to ensure that ongoing projects would meet the technical requirements of the Operations section. Secondary duties were to provide direct operational support for system problems escalated to Tier 3 from the DEA Service Desk, particularly those problems that were enterprise-wide and/or cross-discipline in nature.

*Programmer/Analyst*

*Department of Justice: Environment and Natural Resources Division (ENRD)*

Mr. Zechman assisted the government I.T. manager with a planned workstation migration from Windows XP to Windows Vista by writing several scripts to assist installers with migrating user data from the workstation prior to the upgrade, and restoring the data to the new workstation afterward—including making allowances for OS differences in the storage of user files and profile data.

He followed up with the development of a custom tool for querying a server for time reporting by the ENRD staff, and producing on-screen warnings and lockdowns for delinquencies.

Technical Tools: AutoIT, Batch script, Visual C++

**ManTech International Corporation**

**08/1996 – 10/2008**

[08/96–05/02: DOMAIN Technologies; 05/02–12/07: McDonald Bradley, Inc. due to acquisitions]

*Engineering Manager*

*Drug Enforcement Administration: Merlin Project*

Managed 2 MBI and 4 other staff on a project for DEA Merlin (NSTM)

Mr. Zechman was the Senior Engineer and Technical Manager of the six-person Engineering division of the Merlin Project (a contract key position), which provides systems engineering and tier 3 operational support on Unix, Windows NT/2000, Enterprise LAN and WAN infrastructure, firewall, encryption hardware, e-mail/messaging systems, and enterprise-wide security.

### *Systems Programming, Application Packaging*

Most programming and scripting tasks were performed by Mr. Zechman directly. Mr. Zechman also performed the majority of application packaging tasks.

Technical Tools: Visual C++, VBScript, KIXStart / WinInstall, ORCA, VMWare

Visual C++ and VBScript were used to create tools to automate complex and/or tedious tasks. KIXStart was the scripting language used for the Merlin domain-wide login script. WinInstall and ORCA were tools used to build application packages in Microsoft Installer (MSI) format. VMWare was a tool used to create virtual machines for test configurations and before/after snapshots.

### *Senior Engineer and Team Leader*

*Drug Enforcement Administration: Merlin Project (09/1996 – 10/2008)*

Prior to being named Engineering Manager, Dwayne had been a leader in overall network design and engineering for DEA's worldwide TCP/IP network, and as such he was primarily responsible for all issues that affect the interoperation of the enterprise as a whole. He performed a wide variety of operational support and troubleshooting tasks involving Windows 2000, Windows NT 4.0, AIX 4.0, HP-UX 10.20, Cisco routers and switches, firewalls and government-grade data encryption devices (Motorola NES and General Dynamics Sectera INE). His other duties included research/planning in the areas of hardware and software selection; network address assignment, and system deployment. Mr. Zechman was the architect of the Merlin Project's plan for the migration of the Merlin system from NT 4.0 to Windows 2000 and Active Directory—an effort coordinated with other projects that concurrently operate on the Classified Network to jointly upgrade and combine into a single enterprise directory—and continued to play a lead role in that ongoing migration to Windows XP and 2003, as well as overseeing all other Merlin Engineering initiatives.

Technical Tools: VMWare; Unix; Windows NT/2000; Enterprise LAN and WAN infrastructure; Firewall; encryption hardware; e-mail/messaging systems; enterprise-wide security TCP/IP; AIX 4.0; HP-UX 10.20; Cisco routers and switches; Motorola NES; General Dynamics Sectera INE

### *Consultant and Analyst*

*Drug Enforcement Administration: CAPS Project (March 2002 – March 2005)*

Mr. Zechman acted as a Consultant and Analyst tasked by the DEA Automated Message Handling System unit (SIOM) to provide technical input, document review, and integration assistance for the replacement of DEA's legacy message profiling system with the current CAPS system by another contractor. The DEA AMHS unit specifically sought out Dwayne Zechman by name because of his extensive knowledge of DEA's Classified Network, the Communication Center's computer systems and business processes, and his experience with SIOM's Mercury system.

### *Project Leader and UNIX Network Engineer*

*Drug Enforcement Administration: Special Intelligence Support (1997 – 2000)*

Mr. Zechman was Project Leader (supervising 1-2 other employees) and UNIX network engineer to provide engineering, operational, deployment, business process analysis, and development support for a classified Unix and network-based analytical system used by multiple government agencies. His responsibilities included IBM AIX and HP-UX engineering, troubleshooting and support for current systems; installation and upgrading of new systems hardware, operating system and application software; assisting with integration of platforms into the enterprise network; standardization of processes, configurations and associated documentation to support administration, integration, and deployment.

He performed extensive business process analysis, which resulted in the development and integration of automated data tracking and delivery systems built by a combination of leveraging the use of existing tools (such as MS Access, Excel, FTP, SSH) and developing new software (in Perl, C, and VBA). This

BPA automation effort produced a more than threefold improvement in productivity, and resulted in the award of the DEA Certificate of Appreciation for Outstanding Contributions, mentioned above.

He subsequently returned to the project in 2001 and 2002 on a part-time basis to engineer and deploy multiple firewall solutions to securely connect other back-end networks to the DEA Classified Network to support other custom analytical applications and data delivery initiatives.

Technical Tools: IBM RS/6000 systems running IBM AIX UNIX operating systems, Microsoft Access, Microsoft VBA, Perl, Gnu C++, SSH

- Perl and SSH were used to develop an automated data delivery system for after-hours transfers of multi-gigabyte data files across DEA WAN links, including performance monitoring, error checking and retransmission, and status reporting.
- Perl and X-Windows were used to develop a graphical tool for planning data transfers to be executed by the data delivery system.
- Perl and MS Access with VBA were used to develop a data tracking application that provided on-demand graphical representations of what data files are stored on what servers.

*System Security Analysis for Office of National Drug Control Policy  
Office of National Drug Control Policy: Certification and Accreditation Support (1999)*

Mr. Zechman assisted ONDCP personnel with the security evaluation of a recently re-engineered profiling system, and prepared presentation materials for use in presenting the system to a CIA C&A board for review. The review was not only successful, but one member of the reviewing board commented that it was one of the most well prepared presentations he'd seen in 15 years.

*Software Development and Windows NT Engineering  
Drug Enforcement Administration: Mercury Project (1996 – 1997)*

Mr. Zechman performed a number of server-design tasks as part of the implementation of the Mercury system for DEA's Automated Message Handling System unit (SIOM), including a medium-sized programming project using Perl on Unix to process electronic mail. His other duties included systems integration, operational and installation support, and troubleshooting Windows NT systems, networks, modems, and terminal servers.

Technical Tools: Perl. Developed a custom mail-processing system written in Perl that converts messages from the native format of the Mercury system to standard JANAP and ACP formats for processing and archiving by legacy systems (AUTODIN and GESCAN).

## **ABOUT THIS RESUME**

A current, updated version of this resume can always be found at the website of Zechman Technologies, inc.— <http://www.zechman.com/>

This resume may not be used in any government proposal effort as a “sample resume” without the prior permission of its owner, Dwayne N. Zechman.

This resume was last updated on June 3, 2020.