

Andrew West

Cyber Security Engineer

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SUMMARY

Experienced software engineer with a demonstrated history of working in the computer and network security industry. Skilled in tool development, reverse engineering, assembly, and vulnerability research.

EXPERIENCE

MITRE Corporation — Lead Cyber Security Engineer

Bedford, MA | Mar 2015 – Present

- Lead team that developed automated test framework for Android devices for integration into customer's test framework
- Used Ghidra to reverse engineer mobile platforms for vulnerability research
- Developed parasitic debugging tool to help debug mobile baseband

ManTech International — Senior Software Engineer

Hanover, MD | Jan 2013 – Mar 2015

- Completed a three-month Advanced Cyber Training Program, gaining a broad knowledge of Windows CNO development skills
- Applied new skills, using vulnerability research on two projects, producing proof-of-concepts delivered to the customer
- Used IDA and Python scripts to increased productivity of reverse engineering / vulnerability research tasks
- Developed low-level applications for Windows using WinAPI (user and kernel mode)

Lockheed Martin Sippican — Senior Software Engineer

Marion, MA | Aug 2005 – Dec 2012

- Supported design, development, testing, troubleshooting, and maintenance of naval missile decoy systems / C, C++, QNX
- Developed control software for simulator of a decoy launching system (DLS) / C-lang
- Developed software application for handheld devices used to improve the quality control of production/shipping process for printed circuit boards
- Designed/revised GUI of several systems to improve the UX / LabView, Winteractor, Visual Studio, QNX Photon
- Prepared test procedures and performed testing for system integration and acceptance testing
- Managed small team in development of next-gen DLS processing unit
- Prepared technical documentation packages for customers
- Created cost estimates to support contract proposal and bid efforts

Tyco Electronics, M/A-COM — Electrical Engineer

Lowell, MA | May 2003 – Aug 2005

- Designed and developed firmware for 8051 microcontroller in C to configure and control components for a public-safety-band mobile-radio
- Defined hardware/software interface specifications and other technical documentation for microcontroller
- Worked with electrical engineers to integrate software and hardware

EDUCATION

Northeastern University, Boston, MA

— M.S. Electrical and Computer Engineering

Jan 2010 | 3.8/4.0 GPA

Worcester Polytechnic Institute, Worcester, MA

— B.S. Electrical and Computer Engineering

May 2003 | 3.2/4.0 GPA

SKILLS

Python, C/C++, Java, Visual Basic, Intel (x86/x64) assembly

IDA, Ghidra, WinDBG, VMware, VirtualBox, Git, Jira, Confluence, Eclipse, Visual Studio, Android Studio

Reverse Engineering, Vulnerability Research, Scrum, Agile

Have used:

ARM assembly, PHP, Perl, HTML, CSS, JavaScript, MySQL, DOORS, ClearQuest, ClearCase, Sysinternals, Qt

HONORS & AWARDS

MITRE Awards

Trailblazer¹ Catalyst² Spot¹ Spark⁵

Lockheed Martin Awards

Spot¹ Peer³

WPI President's IQP Award

Thailand | May 2002

Eta Kappa Nu, Gamma Delta Chapter

National Electrical Engineering Honor Society

SECURITY CLEARANCE

TS / SCI

Active with current SBI / Poly