



SETH JAMES NIELSON, PH.D

President

- ✉ Seth@crimsonvista.com
- ☎ 512-387-4310 (Office)
- ☎ 410-497-7384 (Mobile)
- 🌐 www.crimsonvista.com

CREDENTIALS

Ph.D., Computer Science
Rice University

CISSP

SKILLS

Cybersecurity: Authentication, Authorization, Classic Network Security Architectures, Zero-Trust Network Security Architectures, Cryptography, Privacy, Intrusion and Incident Response, Risk Assessment, Threat Analysis, Secure Software Development Lifecycle, NIST SP800-171, GDPR, CMMC.

Forensics: Source Code Theft, Source Code Vulnerabilities, Cryptography Failures, Data Breach, Data Tracking, Attribution, Digital Documents Tampering, Device Tampering, EnCase, Chainalysis.

Programming Languages: C, C++, Java, Python, Ruby, JavaScript, Go, Assembly, RTL/Verilog/VHDL

LANGUAGES

English Portuguese

About Me

Dr. Nielson is the founder and president of Crimson Vista, Inc. He is a subject matter expert in multiple areas such as cybersecurity, computer networking, and software engineering. He has assisted clients with security strategies, forensic investigations, compliance initiatives, threat analysis, secure data designs, privacy, and cryptography. Additionally, he lectures as an adjunct professor at the University of Texas as well as mentors computer science student projects. Dr. Nielson has also contributed to funded research into ransomware, zero-trust architectures, and cryptography education.

SELECTED AFFILIATIONS

- President** Crimson Vista, Inc
- Adjunct Professor** University of Texas at Austin
- Cybersecurity Fellow** Robert Strauss Center
- Founding Director** The Crypto Done Right Foundation

SELECTED PUBLICATIONS & RESEARCH

Cracking a Continuous Flow Reactor:

A Vulnerability Assessment for Chemical Additive Manufacturing Devices

Practical Cryptography in Python:

Learning Correct Cryptography by Example

Discovering Cybersecurity:

A Technical Introduction for the Absolute Beginner

Mitigation of Ransomware

DoD 2018.B STTR solicitation (Army), Topic: A18B-T010, Crimson Vista, \$150,000 Decentralizing Zero-Trust Infrastructure to Combat Advanced Persistent Threats and Malicious Insiders.

