Research Scientist

Cross domain solutions with inherent immunity to malware infection. Spectre/Meltdown uarchitecture attack. Hardware/FPGA, formal methods implementation from a security-approval-forward basis. Software/hardware & systems engineering for early-stage company.

Research Assistant Professor

Taught computer security, beginning C programming, and ethical hacking at undergraduate and graduate levels. Daily lecture and laboratory demonstrations of cyberweapons, counterintelligence, and TEMPEST countermeasures. Lectured on sociopolitical issues arising from new cyberweapons, government spying, and privacy.

Consultant

Secret-and-Below (SABI) certification of two new cross domain solutions (CDS) for a developer in the Washington, DC area. Advising on likely certifier directions and anticipating certifier moves. Vulnerability analysis. Arguing NIST 800-53 security controls with certifier.

Postgraduate Researcher

University of Oxford 2007-2015

Discovered methods to control the schedule and predict the outcome of security Certification and Accreditation (C&A) testing of cross domain solutions (CDS) for intelligence community (IC), collateral, and international.

Lockheed Martin 2006-2012 Information Assurance Engineer

Lead for \$968,000 US Air Force project for probabilistic redaction system. Wrote the Security Target (ST) for the Common Criteria (CC) evaluation of Radiant Mercury. Primary interface with NSA, DISA, and GCHQ in the UK.

Lockheed Martin Senior Software Engineer

Invented nested digital signatures for satellite imagery files–U.S. patent number 8,793,509. Discovered the optical TEMPEST effect and its countermeasures-U.S. patent number 6,987,461. Software developer and security engineer for RADIANT MERCURY.

Discoverer of numerous cybersecurity vulnerabilities; internationally known researcher, conference speaker, consultant, and open source software contributor with degrees in CS, math, and software engineering.

(270) 277-7800

netoir.com

Joe Loughry

2017-present

2016-2017

2015-2016

1998-2006

University of Denver

C&A Docs, Inc.