# MICHAEL A. HANEY, PhD, CISSP

Cybersecurity Consultant & Researcher — ICS/SCADA · Digital Forensics · Incident Response · Secure AI · Critical Infrastructure
Idaho Falls, ID · (208) 243-8952 · m.haney@sawtoothdigitalforensics.com · linkedin.com/in/michael-haney-phd-cissp·
sawtoothdigitalforensics.com · Remote / nationwide

## PROFESSIONAL SUMMARY

Cybersecurity practitioner and researcher with 30 years across Fortune 500 and federal consulting, national-laboratory research, and academic program leadership. Deep operational expertise in industrial control systems (ICS/SCADA) and critical-infrastructure security, digital forensics, and incident response — combined with current, applied expertise in the secure and trustworthy deployment of AI systems. Proven at translating complex security problems into practical guidance for executives, engineers, and government stakeholders, and at building and leading teams, programs, and client engagements from the ground up.

## CORE COMPETENCIES

**ICS / SCADA & OT Security** · Critical Infrastructure Protection · Digital Forensics & Malware Analysis · Incident Response ·

**Secure AI Implementation** (NIST AI RMF, governance, risk) · Risk Management & Compliance (NIST CSF, NIST SP 800-82, PCI DSS) ·

**Security Architecture & Network Monitoring** · Penetration Testing · Threat Intelligence & Deception · Security Training & Workshop Delivery · Expert Witness / Technical Review

## CERTIFICATIONS

**CISSP** (Certified Information Systems Security Professional, since 2002) · **GCIA** (Intrusion Analyst) · **GCIH** (Incident Handler) · **GCFA** (Forensic Analyst) · **GSEC** · **CFR-310** (Cyber First Responder)

## PROFESSIONAL EXPERIENCE

**Clinical Professor / Program Leadership** — Idaho State University *2025 – 2026*

- Developed and delivered applied AI-security curriculum (Fundamentals of Applied and Industrial AI; Secure and Trustworthy AI Systems) covering AI risk management, governance, and secure deployment — building organizational capability to evaluate and defend AI-integrated systems.
- Co-led an institutional AI Task Force working group advising leadership on responsible AI integration policy, risk, and governance.

**Cybersecurity Researcher & Program Director** — University of Idaho / University of Tulsa *2015 – 2025*

- Founded and directed the Idaho Cyber Range — designed and built a statewide, reconfigurable environment for hands-on ICS/OT offense-and-defense exercises, coordinating delivery across eight institutions and serving students, professionals, and government partners.
- Served as Program Manager for a statewide cybersecurity education and workforce-development initiative, aligning curriculum and training to national standards (NSA/DHS CAE).
- Held a multi-year joint appointment with Idaho National Laboratory's Cybercore Integration Center, conducting applied research on critical-infrastructure and control-system security for energy-sector and national-security stakeholders.
- Led and co-led more than $18M in externally funded security programs (NSF, DOE, NIST, NSA, INL), managing scope, teams, deliverables, and sponsor relationships.

**Senior Security Consultant** — True Digital Security *2011 – 2013*

- Designed and managed an advanced network security monitoring platform for managed-security-services clients; advised regional energy-sector companies and state agencies on security strategy and operations.

**Senior Security Consultant** — FishNet Security *2008 – 2011*

- Delivered risk management and regulatory-compliance guidance to SMB, enterprise, and federal clients — assessments, remediation roadmaps, and security-program design across multiple regulated industries.

**Manager (Consultant)** — Ernst & Young LLP *2002 – 2008*

- Managed security engagement teams for Fortune 500 financial-services clients; delivered enterprise information-security assessments, controls design, and regulatory-compliance programs. (Earlier roles: Senior Security Analyst, WilTel/Level 3; Security Administrator, FCI; Network Technician, EarthLink/MindSpring, 1999–2002.)

## SELECTED ACCOMPLISHMENTS

- **Patent:** U.S. patent in privacy-preserving network security monitoring (No. 10,326,803 B1, 2019) — encrypted-at-capture traffic recording with per-session key escrow.
- **Recognition:** Best Paper, ACM Cyber & Information Security Research Conference (2014), for a SCADA honeynet framework — foundational ICS-deception work. Best Paper, American Nuclear Society (2019), for cybersecurity vulnerability assessment of nuclear power plants.
- **National service:** Elected to the Board of Directors (Assistant Secretary, 2026) of the Colloquium for Information Systems Security Education (CISSE); co-chairs sponsorship and programming for its 30th-anniversary conference.
- **Thought leadership:** 60+ peer-reviewed publications and an edited Springer volume on ICS security and resiliency — recognized subject-matter authority in ICS/SCADA and critical-infrastructure security.

## EDUCATION

**Ph.D., Computer Science** — University of Tulsa (2015) **M.S., Computer Science** — University of Tulsa (2013) **B.S., Mathematics** — University of Kentucky (1998)