

GABRIEL ADAMS

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ACCOLADES AND CERTIFICATIONS

CyberCorps: Scholarship for Service U.S. Office of Personnel Management	Cookeville, TN
SY0-701 - CompTIA Security+ <i>Valid Through: Apr. 13, 2028</i>	Issued: Nov. 1, 2024 (Renewed)
CS0-003 - CompTIA CySA+ <i>Valid Through: Apr. 13, 2028</i>	Issued: Apr. 13, 2025
ISE - IoT Security Essentials <i>Valid Through: Oct. 23, 2028</i>	Issued: Oct. 24, 2025

EXPERIENCE

Contract Penetration Tester <i>ZOE International (Nonprofit)</i>	Sept. 2025 – Nov. 2025 <i>Remote</i>
<ul style="list-style-type: none">Conducted a cloud application penetration test under NDA to assess and strengthen security posture.Delivered findings and remediation recommendations to support safeguarding sensitive systems.	
X163 Energy and Control Systems Security Intern <i>Oak Ridge National Laboratory</i>	May 2025 – Aug. 2025 <i>Oak Ridge, TN</i>
<ul style="list-style-type: none">Performed vulnerability research and assessments on embedded devices across two projects, producing reports and presentations.Developed custom Rust-based fuzzing frameworks targeting RTOS firmware to uncover flaws.Used Ghidra to reverse engineer firmware and identify authentication bypass vulnerabilities in industrial control systems.Authored technical documentation and presented findings to engineering teams and DOE mentors.	
Satellite Security Lead Researcher <i>Cybersecurity, Education, Research, and Outreach Center (CEROC)</i>	Aug. 2024 – Present <i>Cookeville, TN</i>
<ul style="list-style-type: none">Built digital twin testbeds to analyze satellite communication security.Developed data analysis tools for transmission data patterns and timing anomalies.Researched side-channel countermeasures for satellite cryptographic modules.	
Embedded Systems Security Analyst <i>Center for Energy Systems Research</i>	May 2024 – Aug. 2024 <i>Cookeville, TN</i>
<ul style="list-style-type: none">Secured SCADA-to-device communication infrastructure and managed RTAC configurations.Developed portable, secure RTAC images compatible with HIL simulation systems.Helped complete a multi-million-dollar CESR energy systems research project.	
IT Security Intern <i>Rebo Lighting and Electronics</i>	May 2024 – Aug. 2024 <i>Sparta, TN</i>
<ul style="list-style-type: none">Implemented SIEM systems for network traffic monitoring and alert correlation.Conducted vulnerability assessments and managed mitigation plans.Supported ISO 27001 certification through policy creation, tool deployment, and staff training.	
AI Drone Security Researcher <i>Cybersecurity, Education, Research, and Outreach Center (CEROC)</i>	July 2023 – May 2024 <i>Cookeville, TN</i>
<ul style="list-style-type: none">Created a multimodal AI model to detect false-data injection, DoS, and MITM attacks from flight logs.	
Embedded Systems Engineer <i>Center for Energy Systems Research</i>	Jan. 2023 – May 2024 <i>Cookeville, TN</i>
<ul style="list-style-type: none">Developed embedded C software for wireless energy transfer systems.Collaborated on research leading to a university publication credit as an engineer.	

EDUCATION

Tennessee Technological University <i>B.S. in Computer Science, Cybersecurity Concentration</i>	Cookeville, TN <i>Aug. 2022 – Dec. 2025</i>
Tennessee Technological University <i>M.S. in Information Assurance and Cybersecurity</i>	Cookeville, TN <i>Jan. 2026 – Dec. 2026</i>

LEADERSHIP AND EXTRACURRICULAR

Defensive Cybersecurity Interest Group Lead <i>Jan. 2024 – Present</i>	Tennessee Tech
CyberEagles Vice-President <i>Aug. 2024 – Present</i>	Tennessee Tech

TECHNICAL SKILLS

Programming & Development: C, C++, Python, Rust, Embedded C, x86/ARM Assembly, Bash/Shell.
Embedded & ICS: Firmware reverse engineering, side-channel analysis, protocol fuzzing, Power System Protection.
Security Operations: SIEM, Threat Hunting, Vulnerability Assessment, Incident Response, Forensics, Log Analysis.
Networking & Virtualization: Firewalls, IDS/IPS, DNS, Linux, Windows, Proxmox, Docker, Cloud Security.
Compliance & Cryptography: PKI, IAM, Risk Management, ISO 27001, SSDLC, Encryption.
IoT Security: Wireless Protocol Security, OTA Update Security, Hardware Root of Trust, penetration testing.

COMPETITIONS

MITRE Embedded Capture The Flag (eCTF) <i>Aug. 2025 – May 2026</i>	Boston, MA
• Served as technical lead for my team during both the development and attack phases of the competition.	
Cybersecurity Collegiate Defensive Competition (CCDC) <i>Jan. 2025 – May 2025</i>	
• Led the university’s first-ever CCDC team to a 1st-place regional finish as captain.	
Cyber Resiliency and Measurement Challenge (CRAM) <i>Aug. 2024 – Oct. 2024</i>	Dahlgren, VA
• Led a team of five in a NAVSEA competition to apply LLMs, ML, and data science for system resilience analysis.	

HOBBIES

- IoT Pentesting** | *Jan. 2022 – Present*
- * Analyze and reverse engineer firmware on consumer IoT devices for known CVEs.
 - * Developed open-source tools to automate firmware analysis and vulnerability discovery.