

ZUFAN ABEBE

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PROFESSIONAL SUMMARY

Cybersecurity Analyst with hands-on experience in medical device security, threat modeling, vulnerability assessments, and regulatory cybersecurity documentation. Skilled in security architecture review, product security compliance, risk assessments, and secure development lifecycle. Security+, SySA+ and AWS cloud practitioner certified with experience aligning with frameworks including NIST, ISO 27001, and HITRUST. Proven ability to facilitate tabletop exercises, contribute to regulatory submissions, and support continuous signal monitoring and product security assurance. Public Trust clearance holder with a strong interest in remote or embedded product security engineering roles.

SKILLS

- Threat Modeling & Risk Assessment
 - Product Security Architecture & Compliance
 - Regulatory Frameworks (NIST, ISO 27001, HITRUST)
 - Medical Device Cybersecurity & Lifecycle Support
 - Security Asset Management & Provisioning
 - CVE Tracking & Vulnerability Assessments
 - Secure SDLC & Embedded Security Standards
 - Security Documentation (eSTAR, 510(k), FDA Audit Readiness)
 - GRC Tools (e.g., Archer, ServiceNow)
 - Tabletop Exercise Facilitation
 - Python, Assembly, Bash
 - Reverse Engineering Tools (Ghidra, IDA Pro)
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PROFESSIONAL EXPERIENCE

Cybersecurity Consultant

Medcrypt, Solana Beach, CA | 07/2023 – 06/2025

- Conduct security risk assessments and vulnerability evaluations for connected medical devices.
- Performed threat modeling across a diverse range of medical devices, including wireless, implantable, and diagnostic platforms.
- Contributed to product security documentation for FDA eSTAR submissions, including threat modeling, risk analysis, and security architecture support.
- Supported security design reviews across multiple platforms including mobile applications and embedded systems.
- Developed and maintained documentation supporting audit readiness aligned with NIST and ISO 27001 standards.
- Provided recommendations for security controls and architecture improvements during product development.
- Assisted in provisioning, managing, and validating security assets through the device lifecycle.
- Facilitated internal tabletop exercises for cyber incident response and risk mitigation planning.
- Implemented process improvements and automation to streamline vulnerability tracking and documentation efforts, and vulnerability evaluations for connected medical devices.

Desktop Engineer

SAIC (DOT), Washington, DC | 07/2022 – 07/2023

- Delivered technical support for patch management and access control in compliance focused environments.
- Collaborated on incident tracking and reporting to support vulnerability closure workflows.
- Set up and managed access control for mobile and wireless devices
- Managed Azure accounts for all DOT employees to secure device access

Security Engineer – Medical Devices

BD Medical Device, MD | 12/2019 – 08/2022

- Participated in security testing including penetration testing and code review for medical device firmware.
- Collaborated with developers on implementation of security requirements aligned with FDA guidance.
- Conducted CVE tracking and reporting to support vulnerability mitigation planning.

Pharmacy Technician II

INOVA Health System, Fairfax, VA | 08/2019 – 07/2022

- Supported clinical teams in handling sensitive health information in a HIPAA-compliant setting.
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EDUCATION

Old Dominion University (ODU), Norfolk, VA

Bachelor of Science in Cybersecurity – Expected August 2025

- Focus on cyber threat analysis, secure development, and IT compliance

Year Up / Northern Virginia Community College, Alexandria, VA

Cybersecurity Bootcamp Certification – January 2022

Per Scholas, Silver Spring, MD

Cybersecurity Certificate – December 2021

Northern Virginia Community College, Alexandria, VA

Associate of Science in General Studies – May 2020

CERTIFICATIONS

- CompTIA Security+
 - CompTIA CySA+
 - AWS Cloud Practitioner
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PROJECT HIGHLIGHTS

- **Threat Modeling & Product Risk Assessment:** Created STRIDE-based threat models and risk assessments for pre-and post-market medical devices for over 10 medical device manufacturers.
 - **Security Asset Lifecycle Management:** Supported provisioning and validation of security components across mobile and embedded systems.
 - **Regulatory Documentation & Audit Readiness:** Developed and maintained eSTAR documentation, SBOMs, and policy templates aligned with Health Canada and FDA.
 - **Tabletop Exercise Facilitation:** Led cross-functional tabletop exercises simulating incident response and vulnerability discovery scenarios five times.
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Actively pursuing cybersecurity analyst and product security roles supporting embedded systems, medical devices, or regulated environments. Public Trust clearance holder and U.S. Citizen.