ALEXANDER T. OTTO

CYBER & ELECTRONIC WARFARE PROFESSIONAL
AVAILABLE TO START: JANUARY 2025
SECURITY CLEARANCE: TS/SCI (ACTIVE)

EXPERIENCE

Cyber Operation & Electronic Warfare Officer
United States Army | Fort Drum, NY | Jan 2021- Jan 2025

Brigade Cyber and Electromagnetic Activities Officer in Charge
- Led and coordinated cyber and electromagnetic activities for a light infantry brigade of approximately 3000 Soldiers, ensuring seamless integration of cyber capabilities into large scale operations, directly enhancing situational awareness and mission outcomes in complex, high-stakes environments.

Brigade Data Science Team Lead
- Spearheaded the establishment of a cutting-edge Data Science Team focused on transforming terabytes worth of raw data into actionable insights for leadership; successfully implemented a real-time administrative metric system that increased efficiency across operations within six (6) months of conception.

Electronic Warfare Commander
- Directly managed a specialized Electronic Warfare (EW) company of approximately 40 Soldiers conducting specialized training. Planned and executed complex operations while refining and optimizing EW tactics for immediate deployment.

AI/ML & Cyber Security Researcher
University of Dayton Research Institute | Dayton, OH | Jul 2018 – Jan 2021
- Conducted in-depth research in artificial intelligence and cybersecurity and comprehensive training of diverse machine learning models using extensive network data.
- Specialized in the development and implementation of machine learning models to detect and analyze malicious packets, resulting in models with greater than a 99.8% accuracy and precision upon validation.

PROFESSIONAL EDUCATION

Onward to Opportunity (O2O) | Army Career Skills Program (CSP)
D'Aniello Institute for Veterans and Military Families | Sep 2024-Nov 2024
- Career training program through Syracuse University that provides professional certification and employee support services. CISSP Learning Pathway.

Title 10 Interactive On-Net Operator Course
United States Army | Fort Eisenhower, GA | Feb 2023-Mar 2023
- Education and training on Linux Fundamentals, Windows Fundamentals, Exploitation Methodology, Army Cyber Operations, and Operational Planning.

Electronic Warfare Qualification Course (EWQC)
United States Army | Fort Eisenhower, GA | Jan 2022-May 2022

Penetration Testing Course
Virtual Hacking Labs (VHL) | Nov 2021

Cyber Basic Officer Leadership Course (BOLC-B)
United States Army | Fort Eisenhower, GA | Mar 2021-Dec 2021
- Learned skills and knowledge to train and lead cyber network defense personnel in defending information technology (IT) networks, perform threat management of networks, and perform network forensic operations after a network intrusion.

CONTACT INFO

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https://linkedin.com/in/alexander-t-otto/

https://otto-portfolio.com/

FORMAL EDUCATION

Bachelor of Science - Mechanical Engineering (3.72 GPA)
University of Dayton | *2016-20*
Concentration in Mechanical Energy Systems

Cybersecurity - Artificial Intelligence Certificate Program
Purdue University Northwest | *2022-23*

CERTIFICATIONS

Security+
CompTIA | December *2021 (Active)*

Cisco Certified Network Associate
Cisco | August *2021 (Active)*

Engineer Intern License (Ohio)
Engineers and Surveyors Board | *2021*

SKILLS

- **Coding & Web Development**
- **Python** (advanced), **Bash** (intermediate), **C++** (basic), **SQL** (basic), **MATLAB** (basic), **Assembly** (basic), **HTML** (basic), **CSS** (basic), **JavaScript** (basic), Jupyter Notebook, Visual Studio, Colab, Git, etc.

- **AI/Machine Learning**
- **Experience with:** GenAI, Prompt Engineering, Transformers, LLM, CNN, Classifiers, Supervised & Unsupervised Learning, Scikit-learn, Tensorflow, PyTorch, Hugging Face, OpenAI, etc.

- **Data Science**
- **Experience with:** Matplotlib, Pandas, NumPy, Excel, Power Query, PowerBI, Visualization, etc.

- **Penetration Testing**
- **Experience with:** Reconnaissance, Scanning, Exploitation, Privledge Escalation, Reverse Engineering, Metasploit, Wireshark, IDA, Burp Suite, etc.