HN — HAYDEN NESTER

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EDUCATION

University of Massachusetts   Lowell, MA
Bachelor of Science   2016
Major in Business Administration and International Business; Minor in Computer Science

Valley Forge Military Academy   Wayne PA

CERTIFICATIONS

Google Cybersecurity: in progress   CompTIA Security+: in progress   CCNA: in progress

TECHNICAL KNOWLEDGE

Languages: Bash | Python | SQL | Yaml   **Systems:** Linux | Windows
Tech: AIRCRACK - NG | BURPSUITE | CLOUDFLARE | DOCKER | GIT | HASHCAT | RANCHER | TALOS | WIRESHARK

CONSULTING ROLES

Bosch: Acted as a helpdesk for department; VPN certification failure, software installs, and basic technical issues
Cameron Ashley: Helped design and deploy a network in a new facility; interface between ISP and IT department

PERSONAL PROJECTS

Pwnagotchi Build and Development
- Objective: Construct a Pwnagotchi device for Wi-Fi penetration testing and passive network data collection.
- Approach: Configured device to use a Raspberry Pi Zero W and set up customized Pwnagotchi firmware for optimized handshake collections.
- Outcome: Successfully automated Wi-Fi network sniffing and data analysis to gain insights into local network vulnerabilities.

Unraid Server with 120TB of Data Storage
- Objective: Build/manage a large-scale Unraid server focusing on efficient media organization and remote access.
- Approach: Converted all drives from XFS to ZFS for enhanced performance and data integrity; configured multiple Docker containers to manage media organization tasks; set up and managed numerous game servers, enabling recon for remote monitoring administration; created Cloudflare Zero Trust tunnels to allow secure remote access to services; generated SSL certificates to establish secure connections and data privacy.
- Outcome: Established a robust and scalable server infrastructure capable of remote management, secure access, and effective media organization.

GPU Server for VMs
- Objective: Build a server with multiple GPUs to handle large intensive processes from a central server and build a cloud gaming server.
- Approach: I built a server with multiple GPUS, which enabled a passthrough for each VM within the server. One VM runs a REHL-based server to handle docker loads such as media encoding services. Another VM runs Windows to specifically run Steam to run Steam Link or Moonlight for remote gaming.
- Outcome: I removed the CPU load from my other servers to handle large data loads. This allowed my family to play games on any TV in the house without needing dedicated systems per room.

Local Cloud Storage Server with ISCSI Integration
- Objective: Build a local cloud storage server that also serves as a high-performance ISCSI drive for desktops.
- Approach: Utilized ZFS file system with 128GB of RAM to allow fast and reliable data transfers; installed 10GB NIC on the desktop and used SPF+ connections for high-speed networking; generated SSL certificates to secure remote access to the cloud; configured ISCSI integration for seamless storage expansion for desktop systems.
- Outcome: Developed an efficient and secure local cloud storage solution that enabled fast data transfer, remote accessibility, and reliable performance.

Advanced Home Automation System
- Objective: Create a fully automated smart home using Home Assistant, integrating security and automation functionalities.
- Approach:
  o Programmed ESP32 boards to work with ESP Presence for location-based automation within the home.
  o Integrated industrial security solutions (mag locks, electromagnetic latches) to replace cloud-based smart locks, thus enhancing security.
  o Installed a full suite of PoE security cameras with AI functionalities to trigger automation (e.g., detecting a baby crying sends a notification; recognizing a car's approach opens the garage door).
  o Configured Cloudflare Zero Trust tunnels for secure remote access and SSL certificates for safe connections.
  o Adapted projects to create local voice assistants powered by OpenAI API and local AI models running on old GPUs and server equipment, avoiding reliance on Alexa or Google Home automatic devices.
  o Built millimeter-wave presence sensors based on open-source resources for advanced motion detection.
  o Installed and terminated over 1500 feet of Cat6 Ethernet, setting up more than 60 network connections throughout the home.
  o Developed custom automations, such as modifying a door sensor with a pressure sensor, to create a baby changing table notification.
  o Outcome: Achieved a highly secure, scalable, and user-friendly smart home environment with advanced automation and local control.

EXPERIENCE

Sr. Territory Manager | Cameron Ashley | Manchester, NH   Mar 2024 - Current
- Developed new territory with a YTD total of $2.9 million
- Covered three states, helped build a new business, and set up a distribution facility
- Assisted with IT and networking needs, which led to savings instead of hiring a consulting company.

Sr. Territory Manager | Bosch | Atlanta, GA   Jan 2016 – Mar 2024
- Developed a territory spanning over 12 states
- Conducted meetings with board members, CEOs, CFOs, managers, and owners
- Grew business for the team with a cumulative yearly growth of:
  2020: 123%   2021: 113%   2022: 192%   2023: 136%

Junior IT Specialist | Round's Hardware | Woburn, MA   Jan 2012 – Jan 2016
- Installed and maintained the company's network to ensure 25 computers had a seamless connection along with minimal downtown to the point-of-sale system
- Built new computers and installed relevant software for different departments. Worked with Epicore point of sales systems and PPG paint mixing software
- Assisted by installing/fixing security control systems, security camera network, thermal printers, and all HIDs