# Justin Knox, BSc, CISA, CISSP

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## SUMMARY

Network & Cybersecurity Professional with 20 years of experience in the tech industry, specializing in automation, technical support, and system development.

## EXPERIENCE

### Cybersecurity Analyst
*DTE Energy, S3, Gas Operational Technology, Cyber & Information Systems Security*
**Detroit, MI** | Onsite to 40% remote
October 2024 – Present

- Executed cybersecurity sustainment operations aligned with TSA SD2 frameworks, enhancing compliance and system resilience.
- Collaborated with cross-functional teams and stakeholders to design and implement a secure internal communications infrastructure, ensuring seamless network engineering functionality.

### IT/OT Infrastructure Administrator, Cyber Security
*Great Lakes Water Authority, Operational Technology, Cyber & Information Systems Security*
**Detroit, MI** | Direct-Hire | Onsite to 20% Remote
September 2023 – October 2024

- Leveraged AWWA, NIST 800-153 & CSF 2.0 frameworks to enhance cybersecurity infrastructure.
- Piloted TLS 1.2 and x509 certificates for DNS encryption across Purdue Level 4 and DMZ systems.
- Integrated legacy IP datasets into a unified IPAM system using PostgreSQL, Redis, and Jenkins.
- Automated server lifecycle management using PowerShell and Bash.
- Developed Cisco network analysis tools and M365 Change Management tools for Active Directory.
- Improved password complexity in credential management by 8%.

### Systems Engineer
*Corewell Health, Ma-Tech, Critical Environment Engineering (CEE)*
**Grand Rapids, MI** | Onsite to 20% Remote
June 2023 – September 2023

- Built and deployed production infrastructure 40% faster than projected timelines.
- Applied industry best practices for optimized deployment methodologies.

**Network Engineer**
*jPeg Design*
**Dundee, MI** | 100% Onsite
March 2023 – June 2023
- Deployed Layer 1-3 network infrastructure, security systems, and physical access controls.
- Developed in-house password management and monitoring tools using Python and Scapy on AWS/Azure.

**Technical Consultant, Startup CTO**
*Alchemy Computing, Dumpt'd*
**Washington DC** | 100% Remote
December 2021 – March 2023
- Led engineering team for network infrastructure deployment and Laravel/PostgreSQL prototyping.
- Provided network engineering support for Juniper-based AMEA networks.

**Operations Engineer II / Data Center Technician III**
*Google*
**Charleston, SC; Reston, VA** | Direct-Hire | 100% Onsite
December 2018 – December 2021
- Led the GCVE East-Coast deployment project, completing 75% ahead of schedule.
- Developed automation software to streamline server repairs, resulting in 800% efficiency gains.
- Awarded 19 Peer Bonuses and 2 Challenge Coins for exemplary work during Hurricane Dorian and the pandemic.

**Network Operations & Data Center Technician**
*Switch LTD*
**Las Vegas, NV** | 100% Onsite
July 2017 – December 2018
- Conducted security audits and physical pen-testing for large-scale customer deployments.
- Automated ticket handling using PowerShell and AutoHotKey, reducing processing time by 65%.

**Systems Administrator IV**
*Pinnacle Community Services*
**Las Vegas, NV** | 100% Onsite
October 2016 – June 2017
- Implemented HIPAA-compliant security solutions including firewalls and encrypted storage.
- Conducted digital forensics investigations in compliance with legal standards.

### Technical Consultant
*Alchemy Computing*
**Las Vegas, NV** | 100% Onsite
April 2016 – October 2016
- Provided IT services including network design, virtualization, and electronics prototyping for SMBs in legal and financial sectors.

### Technical Specialist II
*Bally Technologies, Scientific Games*
**Las Vegas, NV** | 100% Onsite
November 2013 – April 2015
- Built the company's first internal training portal, reducing travel costs by 95%.

### Technical Consultant
*Alchemy Computing*
**Las Vegas, NV** | 100% Onsite
September 2009 – November 2013
- Provided IT and network engineering services including website development and malware removal for SMBs.

### Network Event Management Technician III
*Infonet, British Telecom*
**El Segundo, CA** | 100% Onsite
May 2008 – September 2009
- Managed incident response for OSI L1-3 on MPLS & BGP, Cisco, Juniper & Alcatel-Lucent platforms.

### Junior Electronics Engineer
*Synetcom Digital*
**El Segundo, CA** | 100% Onsite
June 2006 – November 2007
- Assisted in the development of industrial SCADA radios and implemented AES-128 encrypted radio links.

### Academic Tutor, Faculty Assistant & Lab Technician
*DeVry University*
**Long Beach, CA** | 100% Onsite
March 2004 – June 2006

## EDUCATION

**BSc Computer Engineering Technology**
*DeVry University*
March 2008 | Cum Laude, GPA: 3.6
- Best Senior Project 2008: "Fingertip Effects" (Machine Vision with Java, C++, Assembly).

## CERTIFICATIONS & ASSOCIATIONS

- **CISSP | Certified Information Systems Security Professional |** International Information System Security Certification Consortium (ISC2)
  Member ID: 954626 | Active as of: March 2024
- **CISA | Certified Information Security Auditor** | Information Systems Audit and Control Association (ISACA)
  Member ID: 2063351 | Active as of: November 2024
- **Security+** | Computing Technology Industry Association (CompTIA)
  Candidate ID: COMP001022411475 | Active as of: December 2023
- **FCC Amateur Radio Technician Class License** | Federal Communications Commission (FCC) | Callsign: KF8BVZ | Active as of: July 2024

## SKILLS

- **Languages:** C, C++, Java, JavaScript, LaTeX, PowerShell, Ruby, Python, Assembly
- **Type I Hypervisors:** Hyper-V, KVM, ESXi, BSD
- **Type II Hypervisors:** Docker, VirtualBox, VMWare
- **Cloud Platforms:** AWS, Azure, GCP
- **Tools:** PostgreSQL, Redis, Jenkins, PowerShell, Bash

## PROJECTS

**"Homelab"**
- Palo-Alto PA-500 FW, ProxMox VM environment w/ TrueNAS, PiHole DNS, OPNSense firewalls.

**"Cyboard" - Longboard Security System and Datalogger**
- Raspberry Pi smart skateboard with GPS, motion detection, and data logging using Python, SQLLite.

## VOLUNTEER WORK / LANGUAGES

- Studying: Spanish, German (Pre-A1), Portuguese (Pre-A1)