

Riley Casey

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SUMMARY

Experienced Data Center Controls Network Engineer with over 8 years in controls engineering and industrial automation. Demonstrated ability to design resilient and secure OT network architectures for high-density environments. Proven track record of collaborating with cross-functional teams to implement and troubleshoot complex network systems, ensuring operational efficiency and compliance with technical standards. Well-versed in advanced networking technologies and protocols supporting mission-critical infrastructure while evaluating vendor solutions to drive technical decisions across controls infrastructure. Committed to maintaining security and reliability throughout project lifecycles.

EXPERIENCE

Data Center Controls Network Engineer

January 2024 - Present

TechNetworks Inc.

San Diego, CA

As a Data Center Controls Network Engineer at TechNetworks Inc., leads OT network architecture efforts for AI data centers, partnering closely with multi-disciplinary teams to ensure integrated solutions that support optimal performance. Facilitates communication and ensures alignment between IT and OT requirements essential for operations.

- Led design and validation of OT network architectures, enhancing resilience and functionality for large-scale data center deployments.
- Collaborated extensively alongside mechanical, electrical, and IT stakeholders to achieve seamless integration of OT systems.
- Crafted detailed technical design documentation, including commissioning plans and network diagrams, guiding effective deployments.
- Implemented Layer 2 and Layer 3 network security measures aligned with industry best practices to mitigate threats.
- Troubleshoot complex network issues effectively by leveraging packet capture and log analysis to pinpoint root causes.
- Managed factory witnessed testing and site acceptance process ensuring networks are validated against performance benchmarks.

Senior Network Engineer

March 2020 - December 2023

Innovative Solutions LLC

Irvine, CA

Oversaw senior engineering duties focusing on the design and implementation of critical OT network topologies. Played an integral role in driving improvements across network efficiency, whilst managing resource allocation for large initiatives in a fast-paced environment.

- Designed resilient OT network structures which improved redundancy and significantly minimized potential downtime.
- Integrated various industrial communication protocols such as BACnet and Modbus, simplifying system interoperability.
- Streamlined design processes by developing engineering standards, reducing overall project timelines while enhancing quality.
- Partnered with vendors during commissioning phases to align some projects with regulatory standards and client needs.
- Provided mentorship on best practices regarding network design, boosting confidence and knowledge among junior engineers.
- Facilitated risk assessments and articulated potential vulnerabilities to various stakeholders in timely manners.

Network Engineer

July 2016 - February 2020

Dynamic Networks Corp.

Santa Monica, CA

Executed both the design and deployment of critical OT network infrastructures focused on optimal availability within demanding environments. This role required consistent collaboration and adaptability to changing specifications.

- Designed OT network infrastructure, achieving optimal performance metrics within mission-critical settings.
- Developed effective strategies for network observability through management tools enhancing functional efficiency.
- Coordinated site acceptance testing that verified project deliverables were met according to set guidelines.
- Worked closely with diverse teams to establish clear protocols and integration patterns for various OT protocols.
- Supported network operation resiliency via implementing change management fundamentals and ensuring backup configurations.
- Utilized troubleshooting methods to resolve anomalies quickly, upholding service quality expectations should shifts occur.

LEADERSHIP & AWARDS

- Recognized for Outstanding Team Collaboration at Innovative Solutions LLC
- Award for Excellence in Innovation in Network Design at TechNetworks Inc.

EDUCATION

Bachelor's Degree in Electrical Engineering

2016

University of California, Los Angeles GPA: 3.8

Los Angeles, CA

Coursework: Control Systems, Digital Circuits, Signal Processing, Electromagnetics

CERTIFICATIONS

- Cisco CCNP 📅 2023
- Palo Alto PCNSA 📅 2023
- CompTIA Security+ 📅 2023

TECHNICAL SKILLS

- **Networking Tools:** Cisco switches/routers, Juniper switches/routers, Palo Alto firewalls
- **Virtualization Platforms:** VMware vSAN, Microsoft Azure Stack HCI, Hyper-V
- **Industrial Protocols:** BACnet/IP, Modbus TCP/RTU, OPC UA
- **Operating Systems:** Window Server, Linux, VMware ESXi
- **Security Standards:** NIST, ISO/IEC 27001, CIS Controls
- **Monitoring Platforms:** Cisco Catalyst Center, Palo Alto Panorama, Juniper Mist
- **Communication Methodologies:** SNMP, syslog, NTP/PTP
- **Testing Procedures:** Factory Acceptance, Site Acceptance, Failover Testing
- **Management Principles:** Agile, Scrum, Project Management Fundamentals
- **Documentation Standards:** Specification Documents, Technical Schematics, Commissioning Plans

SKILLS

- OT Network Architecture
- Industrial Automation
- Troubleshooting & Diagnostics
- Layer 2 & Layer 3 Design
- Network Security Policies
- Project Management
- Routing Protocols
- Layer 3 Switching
- Network Monitoring Tools
- Industrial Ethernet Connectivity
- Firewall Configuration
- Telecommunication Systems
- Infrastructure Design
- Control Systems Integration
- Access Control Strategies

PROFESSIONAL AFFILIATIONS

- Member of IEEE (Institute of Electrical and Electronics Engineers)
- Active participant of AEE (Association of Energy Engineers)

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST