

Manuel Moss

Sr. Renewables Networks Engineer

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SUMMARY

Dynamic network engineer with over 6 years of experience specializing in operational technology and telecommunications for renewable energy projects. Proven expertise in designing and executing network architectures and control systems for large-scale energy storage solutions. Skilled in cybersecurity practices, network diagnostics, and utility-scale inverter technology assessments. Committed to driving asset management strategies and fostering collaboration with stakeholders to enhance operational efficiency and security. Eager to contribute innovative solutions that support sustainable project development.

EXPERIENCE

Renewables Network Engineer

GreenTech Innovations 📅 March 2022 - Present 📍 San Francisco, CA

Leads design and execution of network architecture focused on utility-scale renewable energy projects. This role supports various deployments while emphasizing secure communication protocols and advanced troubleshooting techniques.

- Developed robust infrastructures for renewable projects, significantly enhancing system reliability and performance.
- Directed the technical scope for telecommunication networks, ensuring strict compliance with industry standards and best practices.
- Administered advanced installation of security frameworks, incorporating firewalls and IDS technologies.
- Participated collaboratively in multidisciplinary teams to optimize designs for energy storage control systems.
- Set up comprehensive monitoring systems to oversee OG network health, guiding efficiencies and performance improvements.

Network Engineer

EcoPower Systems 📅 January 2019 - February 2022 📍 Austin, TX

Specialized in spearheading VOIP network engineering through efficient commissioning and execution strategies. Engaged consistently with external parties while evaluating important telecom infrastructure.

- Designed and configured both LAN and WAN systems, integrating a range of communication technologies for maximum effectiveness.
- Led the successful oversight of various site reviews, ensuring operational readiness and adherence to compliance requirements.
- Diagnosed and resolved complex network performance issues leveraging tools like Wireshark and NMAP effectively.
- Implemented critical cybersecurity protocols, resulting in heightened protection across systems.
- Fostered relationships and continual communication with regulatory bodies to facilitate alignment with project initiatives.

Junior Network Engineer

Renewable Energy Solutions 📅 June 2016 - December 2018 📍 Denver, CO

Contributed under senior engineers to form solid foundations for analyses and installations related to renewable implementation strategies while promoting knowledge transfer within the team.

- Assisted in establishing network redundancies for all renewable systems, ensuring high availability and performance.
- Supported performance evaluations, diligently applying troubleshooting solutions as required for smooth operations.
- Collaborated on defining telecommunication requisites tailored to specific project needs while assisting in seamless integrations.
- Conducted extensive research targeting communication protocols and security practices aimed at elevating project success rates.
- Documented all workflow processes clearly, bolstering team visibility and shared understanding during projects.

LEADERSHIP & AWARDS

- Recognized as Employee of the Month for outstanding performance in October 2023.
- Awarded Best Innovative Solution in Renewable Tech at TechGreen Conference 2024.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Washington 🎓 GPA: 3.8 📅 2016 📍 Seattle, WA

Coursework: Circuit Analysis, Control Systems, Signal Processing, Communications Systems

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) 📅 2023
- Certified Information Systems Security Professional (CISSP) 📅 2025

TECHNICAL SKILLS

- **Networking Tools:** Wireshark, NMAP, Cisco Packet Tracer
- **Security Frameworks:** Fortinet, Palo Alto, Cisco ASA
- **Communication Protocols:** Modbus, DNP3, TCP/IP
- **Control Systems:** SCADA, PLCs, HMI Programming
- **Project Management Software:** JIRA, Asana, Trello
- **Virtualization Platforms:** VMware, VirtualBox, Hyper-V
- **Circuit Simulation:** MATLAB, Simulink, PSpice
- **Cloud Services:** AWS, Azure, Google Cloud
- **Database Management:** SQL, MySQL, MongoDB
- **Energy Management Systems:** SolarEdge, Enphase, Schneider Electric

SKILLS

- Network Design
- Project Management
- Communication Protocols
- Troubleshooting Methods
- Operational Technology
- Technical Assessments
- Inverter Solution Assessment
- Intrusion Detection Systems
- Telecommunications
- LAN/WAN Configuration
- Network Performance Tuning
- Fiber Optic Installation
- Cybersecurity
- Packet Analysis
- Control System Architecture
- Regulatory Compliance

PROFESSIONAL AFFILIATIONS

- Member of IEEE Power & Energy Society.
- Active participant in local Renewable Energy Forum Meetings.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST