

# Stephen Walker-Weinshenker

772 Ivy St

Denver CO 80220

📞 +1 (720) 474 1422

✉ resume@sww1235.net

in Stephen Walker-Weinshenker

🌐 sww1235

## Professional Experience

- 2019–Present **Distribution Automation/Communications Engineer, Xcel Energy Inc, Denver CO.**
- Assisted with Xcel's grid modernization efforts, including Advanced Metering and Field Area Network modernization with WiSUN and cellular modems.
  - Supported Xcel's new Advanced Distribution Monitoring System deployment by establishing and troubleshooting communications to field equipment.
  - Developed islanding logic for new community scale microgrid implementations, including integration with battery and DER controllers.
  - Engineered and standardized communication solution for Direct Transfer Trip implementation using high-speed radios and led standardization efforts for these projects.
  - Co-developed and architected a device management database in Microsoft Access to allow multiple teams to efficiently share and work with device data.
  - Developed the schema and data structure for the replacement of the MS Access database. The new schema is 3rd Normal Form compliant and mirrored the structure of other core company systems allowing easier integration between systems.
  - Assisted with developing Xcel's Operational Technology security policies.
  - Supported Downtown Network Monitoring deployment in Minnesota, including SCADA integration and testing.
  - Developed and tested an integrated monitoring solution for MicroAT ATO controls using the Novatech Orion MX which allows for detection and notification of power outages on both feeders.
  - Wrote several iterations of scripts allowing faster data import into Itron Gridscape.
  - Rewrote and significantly expanded the Xcel Communications Standards Manual.
- 2017–2019 **Area Engineering Intern, Xcel Energy Inc, Denver CO.**
- Improved field communications infrastructure for SCADA systems, including radios and IP networks.
  - Implemented new Field Area Network using WiMAX and WiSUN wireless technology.
  - Performed field wireless propagation surveys to confirm chosen field locations would communicate as designed.

## Certifications/Licenses

- March 2025 Licensed as a Professional Engineer (PE) in Colorado: PE.0066180.
- May 2019 Certified as Engineering Intern (EI) in Colorado.
- April 2015 Amateur Radio License — call sign KE0DZE.

## Professional Skills

- Distribution Automation Familiar with operation and troubleshooting of SCADA protocols including DNP3, Modbus and Mirrored Bits.
- Distribution Automation Worked with multiple vendor's RTUs and RTACs, including SEL, S&C and Eaton/Cooper. Proficient understanding of logic development for these platforms.
- Distribution Automation Experience with distribution equipment such as RTACs, PLCs and Automation/Protection Controllers for Reclosers, Capacitor Banks, Automated Switchgear, Voltage Regulators and Source Transfer equipment.

Distribution Automation	In-depth experience programming and troubleshooting Automated equipment using software such as S&C Intellilink, SEL AcSELerator Quickset, SEL AcSELerator RTAC, Eaton Proview 5.0, Eaton Proview NXG, and Novatech NCD.
Radios and Communications	Experience with troubleshooting and programming Itron WiSUN equipment including Access Points, Relays, Bridges and WiSUN NICs. Familiar with the Itron UtilityIQ suite, especially the GridScope configuration tool.
Radios and Communications	Extensive experience programming and troubleshooting cellular radios, including the RV50 series of cellular modems from Sierra Wireless/Semtech.
SCADA	Familiar with Schneider Electric ADMS SCADA platform, including troubleshooting device communications and protocol configuration.
IT and Networking	Experience troubleshooting at all layers of network stacks, including physical, TCP/IP and higher level protocols and using Wireshark protocol analyzer software.
IT and Networking	Experience programming and troubleshooting network equipment including Ruggedcom switches and routers.
IT and Networking	Familiar with design and layout of networks for redundancy and efficiency. Specific experience with specific experience with the Ruggedcom Expanded Rapid Spanning Tree (xRSTP) protocol.
Mechanical Design	Layout and design of equipment enclosures and mounting hardware for electrical equipment, antennas and cable supports.
Troubleshooting	Skilled in troubleshooting electrical and communications equipment.
Documentation	Skilled at writing technical documentation for both technical and non-technical audiences.
Systems Security	Knowledgeable about all aspects of security, including physical security and network security. Routinely interface with Xcel ESEM engineers around OT and network security of Automation and Communication Assets.

---

## Computer Skills

Operating Systems	Proficient user of Windows, Linux, FreeBSD/OpenBSD and MacOS.
Operating Systems	Proficient in systems administration of the above mentioned operating systems. These skills are practiced in a lab environment at home.
Programming/Scripting	Intermediate knowledge of Visual Basic for Applications, Python, Rust and Bash. Able to quickly familiarize myself with other programming languages as job requirements change.
eCAD	Proficient in PCB design in KiCAD.
CAD	Proficient in Nemetschek Vectorworks, Autodesk Revit and Autocad, FreeCAD and Dassault Systèmes SOLIDWORKS.

---

## Education

May 2019 **Bachelor of Science in Electrical Engineering.**  
*Colorado State University, Fort Collins CO*