

WESTON JOHNSON

Flexible Locations (Open to Relocation) | westonjohnson.com |
Engineering Portfolio

PROFESSIONAL SUMMARY

Master of Science in Electrical Engineering, licensed General Contractor, and high-reliability systems specialist with over two decades of extensive hands-on expertise spanning RF engineering, automated test development, high-voltage switchgear, and complex hardware-software integration. Proven track record of owning critical engineering systems from concept to rigorous field deployment under high-stakes operational constraints, aligning directly with SpaceX's mission demands for extreme execution speed, RF communication reliability, and rigorous engineering standards. Fully flexible and ready to relocate to support mission operations.

CORE ENGINEERING COMPETENCIES

- **RF & Systems Engineering:** Radio frequency circuit design, signal integrity, wireless communication systems, antenna integration, and comprehensive system testing.
- **Automated Test & Software Tooling:** Automated engineering systems, test fixture development, Python, Flask, C#, WPF, and custom internal scripts designed to eliminate operational bottlenecks and streamline technical data workflows.
- **Power Electronics & High-Voltage Systems:** Industrial switchgear, high-capacity electrical distribution, National Electrical Code (NEC Table 310.16) standards, variable frequency drives (VFDs), and advanced inverter integration (Sol-Ark, EG4, FranklinWH).
- **Rapid Prototyping & Hardware Integration:** Precision mechanical assemblies, 3D printing workflows (2.85mm configurations), iterative hardware testing, and physical system validation.

PROFESSIONAL EXPERIENCE

Level IV Switchgear Technician

CPG | Eagle Mountain, UT | August 2026 – Present

- Executing rigorous testing, commissioning, and integration of complex switchgear and high-voltage power distribution systems, ensuring absolute reliability in high-demand industrial environments.
- Applying advanced diagnostic methods and adherence to strict engineering tolerances to identify and resolve electrical anomalies under tight operational timelines.

President & Co-Founder / General Contractor

Solarzing LLC | Operations Flexible | 2018 – August 2026

- Spearheaded end-to-end technical design, power architecture, and field implementation for complex commercial and residential energy storage and high-capacity electrical systems.
- Engineered robust electrical layouts adhering strictly to National Electrical Code (NEC) standards, prioritizing fault tolerance, safety margins, and optimal system performance.
- Oversaw technical operations, resource management, and field execution teams to deliver hardware solutions rapidly and efficiently.

RF Systems & Automated Test Engineer

Wilson Electronics | St. George, UT | 2004 – 2018

- Architected, designed, and tested advanced RF communication hardware, signal boosters, and antenna systems, optimizing wireless link margins and signal integrity.
- Developed robust automated engineering test systems and automated test equipment (ATE) to streamline production validation, drastically improving manufacturing yield and test coverage for high-volume RF devices.
- Directed comprehensive systems engineering initiatives, bridging hardware design with embedded software controls to ensure seamless system integration and rigorous environmental compliance.

EDUCATION & CREDENTIALS

- **Master of Science in Electrical Engineering (MSEE)**
- **NABCEP Certified Professional**
- **Licensed General Contractor**
- **Private Pilot License** (Earned 1999)

PROJECTS & TECHNICAL TOOLING

Project / Tool	Description & Aerospace/Engineering Relevance
FieldFlow Pro	Architected and deployed a custom internal web application utilizing Python and Flask to automate field service data tracking and optimize operational workflows.
BESS & Inverter Architecture	Designed and integrated high-capacity battery energy storage systems and solar-plus-storage architectures focused on high-reliability power delivery and load management.
Automated Test & RF Tooling	Engineered automated test solutions and hardware-software validation frameworks to verify high-frequency performance and structural reliability under harsh operating conditions.