

Jacob Ramirez

SCADA Developer | IIoT Architect | Automation & Networking Specialist

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Professional Summary

Experienced SCADA Developer and Industrial IIoT Architect with 10+ years of progressive experience in automation, networking, and remote monitoring. Specialized in designing scalable SCADA systems with Ignition, deploying MQTT Unified Namespace architectures, and building custom IIoT products.

Core Competencies

- SCADA & IIoT: Ignition Gold Certified, MQTT (SparkplugB), Modbus, OPC UA
- Networking: Peplink, TCP/IP, Subnetting, Remote Router Management
- Industrial Automation: AB & Siemens PLCs, Red Lion HMIs, VFDs
- Software: Python, SQL, REST APIs, Azure, AWS, Git, SQLite
- Hardware: Raspberry Pi, GPS Trackers, Panel Wiring (12V–480VAC)

Certifications

Ignition 7.9 & 8.0 Gold | Peplink Certified Engineer (In Progress)
CompTIA Project+ (In Progress) | AWS Cloud Practitioner (Studied)
NCCER Electrical Level 1 + Core Curriculum

Professional Experience

SCADA Developer – Shalestone | Grand Junction, CO Aug 2021 – Present

- Architected SCADA with MQTT UNS, SparkplugB, and job-based assets
- Built edge devices (Modbus, MQTT, FFmpeg camera streaming)
- KPI scripting in Python + SQL, cloud-hosted Ignition (Azure)

SCADA Developer – Select Energy Services | Odessa, TX Jan 2018 – Aug 2021

- Managed SCADA for 1000+ devices, 200k+ tags
- Built HMI screens, alarms, custom tag logic

Automation Technician – Select Energy Services | Odessa, TX Nov 2016 – Jan 2018

- Installed PLCs, configured modems, deployed boosters

Automation Apprentice – Tessco Energy | Andrews, TX Jul 2015 – Nov 2016

- Installed pump panels, radios, PLCs, fiber optic cable

Education

B.S. Computer Science May 2015

University of Texas of the Permian Basin | Odessa, TX