Esperanza Kowalski-Nwosu

Solar Installer / Crew Lead

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SUMMARY

Solar installer with 5 years on residential rooftop and ground-mount PV, now leading a 4-person install crew. Installs 2-3 systems a week from 6 to 14 kW on tile, composition shingle and metal roofs, including racking, modules, microinverters and battery storage. NABCEP PV Associate and OSHA 30 certified with a clean fall protection record.

EXPERIENCE

Solar Install Crew Lead — Sonoran Sun Energy

Phoenix, AZ · Feb 2022 – Present

- Lead a 4-person crew installing 110+ residential PV systems a year from 6 to 14 kW, on tile, shingle and standing-seam metal roofs.
- Passed 96% of city and utility inspections on the first visit over 2 years by running a 20-point pre-inspection checklist before leaving each site.
- Kept leak callbacks to 1 in 300+ roof penetrations by flashing every mount to manufacturer spec and photo-documenting each one.
- Installed 35 home battery systems with backup panels, coordinating with the electrician of record on load calculations.

Solar Installer — Desert Ridge Solar

Mesa, AZ · Apr 2020 – Jan 2022

- Mounted rails and modules on 150+ rooftop systems, averaging a full 8 kW array in 1 day with a 3-person crew.
- Ran conduit, wired strings and installed microinverters and optimizers under a licensed electrician's supervision.
- Completed 12 ground-mount systems up to 25 kW, setting piers and racking on rural properties.

SKILLS

Installation: Rail and rail-less racking, tile hooks, flashing and sealing, ground mounts, module layout

Electrical: String wiring, microinverters, optimizers, string inverters, conduit runs, battery storage, rapid shutdown

Safety: Fall protection systems, ladder safety, heat illness prevention, OSHA 30, lockout/tagout

Tools and systems: Enphase, SolarEdge, Tesla Powerwall, IronRidge, Unirac, monitoring apps, site survey tools

CERTIFICATIONS

NABCEP PV Associate, 2021

OSHA 30-Hour Construction, 2022

First Aid/CPR, 2025

EDUCATION

Solar PV Installation Certificate, Gateway Community College, 2020

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