

**Fred T. Rea**  
**361 S. Violet Ln. Orange, Ca. 92869**  
**Phone: 714-604-7832**  
**email: thereas361@gmail.com**

## **Qualifications Summary**

- 5+ years of progressive residential and commercial solar installation, site survey and field supervisory experience. Performed both mechanical and electrical installation duties for residential and commercial roof and ground mount solar systems sized from 2 KW to 625 KW. Performed final inspection of solar system with local Agency Having Jurisdiction (AHJ).
- 2 years experience performing site survey, solar analysis, generating annual solar resource reports including electrical service evaluation, roof surface and structural inspection. Initial PV array layout including single line drawings, system sizing and system design, solar access calculations and provided system design optimization analysis.
- Managed 12 (4-man) solar installation teams including support staff, liaison between installation teams and inter-department staff to ensure a seamless production process. Performed final inspection of completed PV system with local AHJ. Ensuring the goal of a high quality system installation with inventory accuracy and a 100% on-time completion record resulting in a positive customer experience.
- 6 years experience as a technical support specialist for end users, customer service and field service engineer, electro-mechanical technician, successfully managed multiple customer accounts, with 100% inventory accuracy and on-time completion record, emphasizing a positive customer experience.
- Increased weekly production from 30 KW to a maximum of 117 KW within 5 months, by building teams based on skill set, job experience and ability to cross-train.
- Established best practices for installation and safety procedures, resulting in improved quality of system installation, work site safety and overall quality of PV system delivered to the customer.
- Lowered material costs by standardizing BOM's based on system size, roof surface, racking system and controlling balance of system material allocation.
- Successful business owner.
- 2.5 years of formal PV solar education including hands-on training in system design and installation for commercial and residential grid-tied, off-grid PV solar systems.
- Advanced training in PV system design optimization and efficiency, with NEC-690 code compliance.
- Proficient in reading building plans, engineering drawings, wire diagrams and schematics, experience in obtaining building permits, using associated test equipment such as volt meters and installation tools.
- **Certifications:** OSHA- 10, Red Cross: CPR and First-Aid, SEI: PV solar system design and solar system installation, NEC 690 compliance, PV system design and installation.

## Fred T. Rea

### Experience

#### **Smokey Fred's BBQ: Orange, Ca.**

2013 - 2018

**Owner / Operator of BBQ restaurant:** Performed all aspects of operation, customer service, staffing, supply chain, and equipment purchasing, ensuring compliance with State and local requirements and codes. In the five years of operation we received numerous awards and accolades, including Award of Excellence from OC Department of Health four years in a row (not eligible first year), highlighted in CBS News articles, featured in two additions of the OC Weekly and named #1 BBQ in OC from the OC Hot List magazine. Also voted #1 BBQ in the OC Weekly's 2018 Best of Edition. Having no culinary education or restaurant experience, the success we experienced has been accomplished by delivering a high quality product (really good BBQ) with great customer service, which created a positive customer experience, repeat business and overall success in business.

#### **American Solar Direct: Santa Monica, CA**

2011 - 2013

**Field supervisor:** Managed 12 four man installation teams covering all Southern California. Responsibilities included day-to-day field operations including coordination of material allocation and installation scheduling, ensuring weekly, quarterly and year-end production goals. Created cross-trained installation teams for maximum efficiency and material/labor cost effectiveness, ensuring high quality system installation. Achieved 100% inventory accuracy and system installation completion record, while maintaining compliance with all federal and state safety guidelines. Performed final inspection of solar system with local AHJ, established system installation and site safety best practices. Increased overall production and system quality, and customer satisfaction.

#### **Velocity Energy Partners: Parker, Co. (REC Solar)**

2010 - 2011

**Commercial Solar Installation:** Performed all aspects of mechanical installation of roof mounted commercial scale (Costco stores) PV solar systems sized from 37 KW to 625 KW: including system layout, material allocation, roof penetration, racking system build, panel installation, system and equipment ground wire installation, solar panel installation and connectivity, final system testing, quality control. Duties also included aspects of electrical installation (except landing circuits) such as wire pulls, installation of combiner boxes and inverters.

**Notable Projects :** 625 KW Costco Lakewood, Ca. 265 KW Freeman/Harris Anaheim, Ca. 37 KW Heritage Center Downey, Ca. 586 KW Costco in Freemont, Ca. 586 KW Costco in Antioch, Ca. and a 586 KW Costco in Pacoima, Ca.

#### **Verengo Solar/Plus: Orange, Ca.**

2009

**Site Analysis/Surveyor PV solar electric systems:** Performed site analysis and roof measurement, solar resource measurements, and created annual solar resource analysis and reports, solar system sizing and initial system layout and design including single line drawings. Responsible for PV optimization, electrical service evaluation, roof and structural inspection including upgrade recommendations. Company liaison for customer and sub-contractors, providing customer service to end users addressing all outstanding questions and concerns to ensure the installation and commissioning of an efficient solar system

#### **REA Enterprises: Orange, CA.**

2007 - 2009

**Solar Site Surveyor:** Performed solar site surveys and created annual solar resource and analysis reports. Duties included initial system sizing, layout and design optimization, including single line drawings, electrical service evaluation, roof and structural inspection.

**Grid Alternatives Volunteer:** non-profit, installing residential PV systems for low income families.

2007

# Fred T. Rea

## Continued

### Solar Education

**SEI: Solar Energy International.**

Carbondale, CO.

2008

Commercial and residential grid-tied solar electric system design and installation, advanced solar electric system design and system optimization including NEC-690 code compliance.

**Golden West College**

Huntington Beach, CA.

2007-2008

Environmental and Renewable Energy Studies (a NABCEP certified program) specializing in photovoltaic theory and operation, solar electric system design and integration.

**Sharp Solar System Design and Installation**

Huntington Beach, CA.

2007

Commercial and residential grid-tied solar electric system design and installation specializing in Sharp Solar electric products for grid-tied roof mounted solar electric systems.

**Certified:** OSHA- 10**SEI Certified:** PV solar system design and PV solar system installation, NEC 690 compliance.**Sharp Solar Certified:** Sharp solar system design and PV system installer.**Red Cross:** CPR and First Aid.

### Military Service

**United States Navy: Aviation Electrician** 7 yrs active service and reserve duty.**Honorable Discharge****Security Clearance:** Secret.**Citations:** Meritorious Advancement, letters of Recommendation and Accommodation.**NAS Miramar: San Diego, CA.**

**Intermediate Maintenance Department:** Responsible for testing, calibration and repair of INS navigation and AFCS flight control systems for the E2B/E2C radar surveillance aircraft.