

# *Record of Completion*

*Presented the twenty-eighth of September, 2007  
this hereby certifies that*

## *Robert Carlson*

*has successfully completed a 5 day workshop in*

### *Grid-tied Photovoltaic Design & Installation*



*Executive Director: Johnny Weiss*

**SOLAR ENERGY INTERNATIONAL**

*Renewable Energy Education and Sustainable Development  
PO Box 715, Carbondale, CO 81623 • 970-963-8855 • [www.solarenergy.org](http://www.solarenergy.org)*

*This workshop has been approved for 40 NABCEP training hours.*

# *Record of Completion*

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this hereby certifies that*

## *Robert Carlson*

*has successfully completed a 5 day workshop in*

### ***Advanced PV: Design Criteria & NEC Code Compliance***

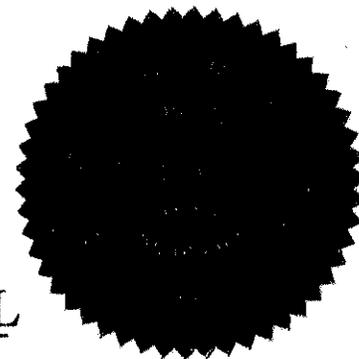


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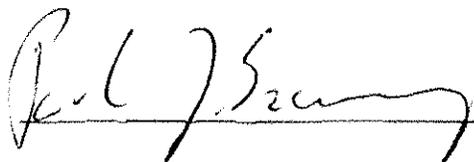
February 12, 2014

To whom this may concern,

Robert Carlson has satisfactorily completed five installations of distributed generation solar photovoltaic facilities working with Eco Solar solutions.

- 14444 S Cottage Grove Ave, Dolton, IL. 16.5 kW PV array, roof mounted on a 4 story multi-residential building. Grid-tied.
- 4751 S Vincennes, Chicago, IL. 19.6 kW PV array, ballasted on a 4 story multi-residential building with a flat rubber roof. Grid tied.
- 5832 Cleveland St, Morton Grove, IL 1.5 kW PV array, roof mounted on top of a 1 story, single family ranch. Grid tied. Tesla Level II charging station.
- 13202 Hebron Rd, Hebron, IL. 10 kW PV array, ground mounted with foundations (due to high water table). Grid tied with 275' underground directional drilling between array and household.
- 2120 Washington Cir, Munster, IN 1.8 kW PV array, roof mounted, grid-interactive with battery backup.
- 1500 W Monroe St, Chicago, IL. 1.5 kW roof mounted.

If you have any questions and concerns, please contact me at [paul@eco-solar-solutions.com](mailto:paul@eco-solar-solutions.com) or 847.220.8786.

 2/12/2014

President and Project Manager

Date

# Robert G. Carlson

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Roselle, IL 60172

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E-mail: [solarsinewave@gmail.com](mailto:solarsinewave@gmail.com)

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**OVERVIEW:** Enthusiastic and knowledgeable professional in the solar energy industry with several years of experience in solar project management, system installations, and operations cost reduction. Builds and maintains effective business relationships with partners, vendors, and customers. Has a passion for solar energy, sustainability, and applying the most cost effective and environmentally friendly solutions.

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## PROFESSIONAL EXPERIENCE

CARLSON SOLAR, Roselle, Illinois

6/2013 – Present

### Owner

- Completes residential installations of solar systems
- Provides cost effective solar solutions by delivering complete solar systems under customer's desired budget
- Develops and maintains business relationships with customer base through industry leading and customized service during all points of sale
- Researches and pursues unsaturated and ideal markets for solar
- Manages vendor relationships with reputable solar and financial vendors such as AEE Solar, SMA, Solarworld, Unirack, Adam Capitol, OutBack, Midnite Solar, DPW, Enphase, Fronius and MCNaughton.
- Prepares accurate and timely quotes and bids to all interested customers

ECO SOLAR SOLUTIONS, INC., Chicago, Illinois

8/2011 – 6/2013

### PV Engineer, Operations Management

- Evaluated solar potential on residential and commercial properties using the Solmetric site assessment tool
- Created roof layouts based upon information gathered during site assessments
- Managed and executes installation logistics by obtaining Sunshot permits, establishing the interconnection agreement, and following National Electric Code
- Responsible for ordering and maintaining equipment inventory for each solar project
- Lead a small team of installers by providing direction and leadership during each stage of the installation process
- Completed solar system installations on a timely basis
- Served as the customer's point of contact for all questions and concerns

REC SOLAR, Flagstaff, Arizona

2/2010 – 5/2012

### Contractor – Lead Installer

- Completed daily residential grid-tied PV installations
- Completed installations by laying out array according to blueprints, flashes and seals roof penetrations, mounts and wires modules, commissions system
- Completed 50+ residential and commercial solar installations

COCONINO COMMUNITY COLLEGE, Flagstaff, Arizona

7/2011 – 10/2011

### Photovoltaic Installation Instructor

- Served as an instructor to out of work electricians, providing education on the fundamentals and basic principles of solar energy
- Provided hands on opportunities to practice learned skills in site data collection and analysis, system design, and installation
- Created course curriculum and educational, takeaway materials

PURE ENERGY ALTERNATIVES LLC, Northbrook, Illinois

5/2009 – 2/2010

### Crew Leader/Inside Sales Representative

- Managed a team of 2 installers and organized installation logistics for residential solar projects
- Established customer connections through predetermined leads
- Completed 10+ residential and school solar installations

INDEPENDENT POWERS SYSTEMS, Bozeman, Montana

7/2008 – 5/2009

### PV Technician and Inventory Manager

- Managed and purchased inventory for warehouse and individual solar projects
- Scheduled residential installations and reserved appropriate rental equipment
- Completed 25+ residential solar installations

**Solar Technician**

- Completed 20+ residential, On and off-grid solar installations
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**EDUCATION:**

PRESCOTT COLLEGE, Prescott, Arizona

Completed relevant coursework in Sustainable Energy and Photography

**CERTIFICATIONS:**

SOLAR LIVING INSTITUTE WORKSHOPS, Hopland, California

- PV Sales – Making the Financial Case with Andy Black

SOLAR ENERGY INTERNATIONAL WORKSHOPS, Paonia, Colorado

- PV101 – Solar Electric Design and Installation (Grid-Direct)
- PV201 – Battery Based Design

**PROFESSIONAL AFFILIATIONS:**

- Member of Solar Energy Association
- Member of Midwest Renewable Energy Association
- Attended Renewable Energy and Education Research Delegation to Cuba with SEI
- Attended Washington Renewable Energy Conference (WIREC)

References by request