

# KENNETH J. PALAMARA JR.

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## OBJECTIVE

Obtain a position at SUN Technical Services where I can maximize my engineering design skills, support and lead goal oriented projects, and creatively solve energy and engineering problems.

## EDUCATION

Bachelor of Science in Energy Engineering  
*The Pennsylvania State University*  
University Park, PA: Anticipated Graduation: August 2014

## LEADERSHIP ACTIVITIES, COMPETITIONS, & AWARDS

*Independent Design: Penn State Team*

### **Green Towers, Fall 2012-Present**

- Cooperated with Penn State students in design, development, and implementation of a commercial aquaponic system and business.
- Developed effective communication skills through design presentation in:
  - Mechanical and Nuclear Engineering Design Competition: Fall 2012, First Place
  - College of Ag. Springboard Entrepreneurship and Design Competition: Fall 2012, First Place

*Engineers Without Borders: Penn State Chapter*

### **Design Director and Water Project Team Member, Spring 2012 – Present**

- Led students in the design and implementation of a water treatment device for Boma, Africa.
- Networked with multiple universities and corporations at national conferences to benefit the Penn State chapter.

*Penn State Wind Turbine Design Team*

### **Design, Product Market, and Business Plan Analyst, Fall 2013 - Present**

- Assists in the design, CADD modeling, and product market analysis of a micro wind turbine.
- Works with a team of students from different majors at Penn State and compete to travel to the competition Finals in Las Vegas, Nevada at the Wind Energy Conference.

*Solar Heating and Cooling Product Design and Evaluation: Sponsored by Beisa Solar*

### **Team Leader and Engineering Design Specialist January 2014 - Present**

- Coordinated with Beisa Solar to evaluate Solar Heating and Cooling Products
- Improved design of system and built prototype
- Measured electricity demand and heat energy output to complete economic assessment

*Costa Rica GREEN Program*

### **Trip Participant August 2012**

- Learned five types of alternative energy with exclusive hands-on site visits.
- Immersion of Latin American culture through social interactions & community involvement.
- Collaborated with students from around the world in an innovative capstone project.

## SKILLS & CERTIFICATIONS

- Efficiency and Quality Improvement: Lean Sigma Yellow Belt: Penn State Summer 2012
- Modeling Software Proficiency SolidWorks CSWA: Penn State Fall 2012
- MS Office (Word, Excel, PowerPoint)
- Experience with MATLAB, Mathematica, and CHEMKIN, AutoCAD123

## RELEVANT COURSES

Engineering Design	Statics	Electrical Circuit Design
Programming in C++	Engineering Leadership	Thermodynamics
Heat & Mass Transfer	Combustion	Material Science
Wind/ Hydro Energy Conversion	Chemistry of Fuels	Engineering Economics

## WORK EXPERIENCE

*The Pennsylvania State University College of Engineering*

### **Lab Assistant, Summer 2013 – Present**

- Introduced the fundamentals of engineering design software to freshman engineering students.
- Mentored freshmen on desirable practices of engineering students and professionals.

*New Leaf Initiative, PA*

### **Intern, Summer 2012 – Summer 2013**

- Promoted and aided in development of Co.Space, a sustainable living option for Penn State students while participating as a team member in community projects.
- Organized project development processes to improve communication and productivity.