

KENNETH J. PALAMARA JR.

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OBJECTIVE

Obtain a position at Duke Energy 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.