

## Objective

Obtain a position in the engineering field incorporating robotic control systems, alternative energies, medical devices, defense, or industry applications in an electro-mechanical aspect.

## Summary

- Intern at Alden Hosting in NJ designing and coding balancing robot and online music player applet
- CLAD certified for LabVIEW; well versed in MATLAB, C++, Multisim, Solidworks, Java, PHP, Perl, and HTML
- Head Food Coordinator and active member of the Pennsylvania State University (PSU) Hillel organization
- Winner of "Most Original Design" award for NJ Panasonic Robotics Creative Design Challenge
- Designed and built an equalizer, power supply and implementations of a simple vending machine using a microprocessor, NAND IC's, and a PLD
- Member of IEEE

## Education

### Bachelor of Science in Electrical Engineering

The Pennsylvania State University, University Park, PA

Expected Graduation: May 2014

Senior, Electrical Engineering; specializing in Control Systems, Data Acquisition and Engineering Mechanics

### Relevant Courses

Design Tools and Hardware Realization	Signal Processing	Technical Writing
Remote Sensing	Computer Vision	Electromagnetics
Electronic Circuit Design	Dynamics	Linear Control Systems
Strength of Materials	Thermodynamics	C++, Matlab

## Related Experience

- Recipient of "Most Creative Design" award from Panasonic Creative Design Challenge 2008
- Designed and implemented a Power Supply and equalizer
- Designed and implemented a simple finite state machine using different implementations
- Successfully passed the NI CLAD exam for LabVIEW as well as working with microcontrollers, PLDs, and ICs

## Skills

Multisim	C++	Matlab and Simulink
LabVIEW (CLAD certified)	Java	Solidworks
Ultiboard	Visual Basic	Certified for on-campus Machine Shop
Perl	PHP	HTML

## Work Experience

### Intern at Alden Hosting *May 2013 – Present*

Web Hosting company, Upper Saddle River, NJ

Designed and built a robot that balances based on the Inverse Pendulum model using PID control structure; creating online documentation and analysis of the project. Designed and implemented a music player internet applet. Used PHP, Perl, C, HTML and Regular Expressions for coding the different projects.

### Head Food Coordinator and Head Chef of Pennsylvania State University Hillel *August 2012 - Present*

Active member of the Penn State Hillel organization; organize, supervise, and prepare weekly Shabbat meals for 100-250 students. Handle a budget over \$60,000 per year. Head Chef August 2011 – Present

### Swim Instructor and Lifeguard *June 2008 - August 2013*

Deerkill Day Camp, Suffern, NY

Instructed children ages 3-15 how to swim during a summer camp program; certified in CPR, First Aide, and Red Cross Life Guard Training (LGT), Automated External Defibrillators (AED), Emergency Oxygen Administration

## Hobby

Certified Advanced SCUBA Diver; certified Rescue Diver