

Career Objective: To obtain employment in the field of Electrical Engineering

Education

- **Elizabethtown College**, Elizabethtown, PA May 2008
- Bachelor of Science in Electrical Engineering
- Minor in Music Education and Technology

Relevant Courses

- Electromagnetics, Circuits Analysis, Statics and Structural Engineering, Dynamics, Signals and Systems, Control Systems Engineering, Computer Science I, Geosystems and Environmental Engineering, Micro-Electronics Circuits, Instrumentation and Measurements, Senior Design Project, Junior Design Project, Applied Quantum Physics, Fiber Optics, Sophomore Project Design, (Calculus I, II and III), Physics (I, II, and III), Chemistry, Spanish I and II

Experience

Senior Engineering Project

- Lead a team of engineers in creating a system to monitor the energy input from solar panels and the charge left in storage batteries
- Designed a control system to switch on/off HoGEN 300 Hydrogen generator, the solar cabin lights, and Heat fans for Ovonic Metal Hydride cooling system
- Leading team of Engineers to compete in 2008 EPA Sustainable Renewable Energies Competition on April 22nd, 2008
- Converted lawnmower, gas grill, and power generator to run on moderate pressure hydrogen gas
- Researched LEED extensively

Wunderbot Project Fall 2006 – Spring 2007

- Electronic and circuit design for an autonomous robot.
- Available to be seen online at www.etown.edu/wunderbot

Junior Project Fall 2006 – Spring 2007

- Researched Luxeon LED's extensively for household lighting use.
- Wrote and presented a paper about proper design techniques and implementation of the LED Lights within cabin.
- Available to be seen online at www.etown.edu/solarcabin

Sophomore Project Fall 2005 – Spring 2006

- Developed and constructed a solar powered cabin.
- Researched and presented design ideas and proper placement for cabin.
- Analyzed its electrical components and designed light components to efficiently light the solar cabin.

Freshmen Project Spring 2005

- Designed and constructed an efficient solar energy storage system.
- Utilized Ultra Capacitors for efficient energy storage and steady power redistribution supply

Internship: Power Product Marketing June 2004 – August 2004

- Electronics repair and design
- Testing components for functionality using multi-meters

Skills

- PSpice, Matlab, Maple, FreePCB, MS Word, Excel, PowerPoint, Labview, PSoC, Lightwave 3D, Adobe Flash, Adobe Dreamweaver, LEED

Additional Experience

- **Dave and Busters.**, Video Game Technician; Honolulu, HI June 2006 - August 2006
- **CompUSA** Computer Hardware / Camera Sales; Honolulu, HI June 2007 - August 2007
- **Meta-Engineering** Assistant Engineer, Drilling, Drill supervisor June 2007- August 2007
- **Physics and Engineering Tutor** Fall 2006 – Spring 2007
Supervised and assisted over 40 students in freshman and sophomore classes in a large variety of physics and engineering courses from physics 200 through circuits analysis

Memberships

- Asian Club, Habitat for Humanity, Intramurals Sports, Jazz Band

References: Upon request