

# JASON A. SMITH

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## OBJECTIVE

To expand my experience and knowledge through a career position in the field of mechanical engineering and work to complete the requirements to become a licensed professional engineer.

## EDUCATION

*Sep 2005 – Sep 2011*

**California Polytechnic State University, San Luis Obispo**

Master and Bachelor of Science in Mechanical Engineering (MSME & BSME)

Degrees Simultaneously Conferred: Dec 2011

Cumulative GPA: 3.85 (MSME) & 3.17 (BSME)

## CERTIFICATIONS

*Jul 2009*

**California Board for Professional Engineers, Land Surveyors, and Geologists**

Engineer in Training (EIT): No. 136943

*Mar 2005*

**Boy Scouts of America**

Eagle Scout: Troop 456 Littleton, CO

## ENGINEERING PROJECT EXPERIENCE

*Jun 2010 – Sep 2011*

**California Polytechnic State University, San Luis Obispo**

### MASTER'S THESIS

Assessed the wind resource on land held by the university to evaluate the feasibility of constructing a wind farm to provide power to the campus.

- Used Ansys FLUENT to compute and visualize the hub height velocity profile
- Fabricated a test fixture for calibrating cup style anemometers in a wind tunnel
- Wrote a MATLAB code to filter and analyze wind data collected from multiple anemometers
- Involved extensive research of past and present CFD studies
- PDF of thesis can be downloaded at <<http://digitalcommons.calpoly.edu/theses/629>>

*Sep 2009 – Jun 2010*

**California Polytechnic State University, San Luis Obispo**

### SENIOR DESIGN PROJECT

Designed a device to aid veterinarians in diagnosing lameness in the legs of horses based on how the horse is distributing its weight using a custom designed 6 degree of freedom load cell.

- Involved developing engineering requirements based on customer input
- Created detailed part and assembly drawings using SolidWorks software
- Fabricated the load cell using both CNC and manual control tools
- Soldered strain gages into Wheatstone bridge circuits to interface with electronics package
- Maintained the project timeline using Microsoft Project to ensure deadlines were met
- PDF of report can be downloaded at <<http://digitalcommons.calpoly.edu/mesp/55>>

## WORK EXPERIENCE

*Oct 2011 – Present*

**Premier Security Services, Littleton, CO**

### LOCKSMITH'S ASSISTANT

- Install and/or repair locks on interior and exterior doors including electrified access control
- Rekey locks for inclusion in master key systems with up to three levels

*Jun 2006 – Dec 2006*

**Ross Dress for Less, San Luis Obispo, CA**

### CASHIER/SALES ASSOCIATE

- Rung up customer purchases on the cash register
- Maintained the neat and organized appearance of items on the store shelves

*Oct 2003 – Sep 2005*

**Target, Englewood, CO**

### CASHIER/CART ATTENDANT

- Returned carts from the parking lot to the store and helped guests with large items
- Rung up customer purchases on the cash register