

Shirley A. Professional

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EDUCATION: California State University, Chico

Bachelor of Science in Mechanical Engineering - May 2009
Certified EIT

PROJECTS: **Sun Tracking Solar Array:** Designed LED light sensors to track the sun on a daily axis, motorized control of seasonal axis, and performed structural design of working components. Performed COSMOS stress analysis testing on working components. Collaborated with county officials to gain final approval of the solar array.

Human Powered Vehicle Project: Collaborated on identifying funding for the 2005 ASME HPV competition. Contributed to organization of the 2004 ASME HPV competition hosted in Chico. Competed as a female rider in the 2004 and 2005 competitions.

COMPUTER SKILLS: **Operating Systems:** Windows (98/2000 Pro/XP Pro), UNIX, Linux
Applications: Microsoft Office, OpenOffice, Visio, Visual Studio.NET, Dreamweaver, Fireworks, Photoshop

EXPERIENCE: **Grader**

Mechanical Engineering Department, CSU, Chico (August 2007 - December 2008)
Selected by faculty to work as a grader for thermodynamics class of junior level Mechanical and Civil Engineering students. Course focused on properties of substances, heat and work, laws of thermodynamics, analysis of closed and open systems, entropy, gas and vapor power cycles, refrigeration, and psychrometrics.

Engineering Analyst

Dundon Engineering, Chico, CA (August 2006 - November 2007)
Performed heat transfer and fluid dynamics engineering and software analysis.
Analyzed a low cost micro channel reformer for production of natural gas.

Equipment Technician

ScanLife, Milpitas, CA (June 2002 to August 2004, June 2005 to August 2006)
Tested and validated equipment for production. Collaborated on the design of efficient method for cooling a visual light inspection table and the maintenance of production machines. Designed a strip bender for testing durability of a variety of strips.

ACTIVITIES: **Society of Women Engineers (SWE)**, Treasurer (2008/2009), Secretary (2006/2007)
American Society of Mechanical Engineers (ASME), member
Tau Beta Pi, member
Phi Eta Sigma, member