

Nathan Davis

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Objective

Entry-level position utilizing my education and training in industrial energy assessment and efficiency.

Education

Colorado State University, Ft. Collins, CO

Bachelor of Science in Mechanical Engineering, May 2010

Internship Experience

Research Assistant, Colorado State Engines and Energy Conversion Laboratory, Ft. Collins, CO, 04/2007 to 10/2008

- Worked alongside engineers doing research with algae to develop biodiesel
- Maintained algae habitat including temperature regulation, weather protection and device that keeps tank full of water.
- Helped prepare algae samples for biologists
- Constructed bags and air sparging system for growing algae

Intern, Anemometer Loan Program, Colorado State Campus, 03/2009 to present

- Installs anemometer towers in locations about Colorado, looking to see if locations are suitable for wind turbines
- Install 1.5 kW wind turbines for Colorado high school teaching and research purposes

Intern, Industrial Assessment Center, Colorado State Campus, 03/2009 to present

- Administer energy audits to businesses around the Colorado, Wyoming and New Mexico area
- Able to do lighting survey and insulation assessment
- Analyze data in Xcel file and organize in a typed report for company to receive

Engineering Projects

Rube Goldberg Orange Juicer Competition (2006): Design and manufacture of a Rube Goldberg orange juicing contraption for sophomore design class. Group won third place for two chemical reactions that took place

Electronic Motorized Mountain Board (2007): Published in Design News Weekly: Gadget Freak section for electric motorized mountain board project for Mechatronics class. Had a remote hand device, odometer/speedometer, head and tail lights, activated horn. Recognized in top ten of projects overall.

ASME Human Powered Vehicle Competition: Senior design capstone designed and manufactured Human Powered Vehicle. Worked in a group of 5. Integral in brainstorming frame and faring design. Tested weld strength for aluminum frame and assisted in aerodynamic faring design and vacuum form, steering knuckle concept and cast, frame construction. Competed in ASME HPVC in Northridge, CA in April 2010.

Skills/strength

Computer Software: MS Word, MS Excel, MS PowerPoint, ProEngineer, FEA

Equipment/Tools: Vertical and Horizontal Bandsaw, Lathe, Saw-zall, Power drill, Measuring calipers, Hand Grinder, MIG Welding and Belt Sander

Activities

- Vice President of Colorado Swing Dancing Society, in charge of teaching lessons to beginning and advanced members of Swing Dancing Club. Great communication and leadership skills. Keep students involved, but also interested so they keep coming every week
- Member of BLAM, competitive Swing Dancing Troupe representing Colorado State University. Enjoy competition and the hard work it takes to remain competitive
- Enjoy hiking, camping and backpacking trips for leisure. Love exploring new territories, optimizing my

resources and setting high expectations for myself and reaching set goals