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Work Experience

Oregon State University: Department of Nuclear Engineering and Radiation Health Physics
Hydro Mechanical Fuel Test Facility
Graduate Research Assistant
Fall 2011-Present

- Research and Development specific to the Hydro Mechanical Fuel Test Facility, an ASME NQA-1 (Nuclear Quality Assurance-1) compliant program. This work involves the hydro-mechanical validation of a prototype plate type low enrichment fuel for high performance research reactors. Specifically, the characterization of flow induced vibrations, deflections, stress analysis, and other phenomena caused by non-uniform flow past plate type fuel.

Southern California Edison
Engineering Intern
Summer 2011

- Mountainview Generating Station Redlands CA, 1050 MW Combined Cycle power plant
- Familiar with GE Frame 7FA Gas Turbine, Foster Wheeler Heat Recovery Steam Generators, & GE D-11 Steam Turbine power systems.
- Worked on projects dealing with water treatment, steam particulate monitoring, ammonia Selective Catalytic Reduction of NOX, peaker turbine operation and Air Quality Management District compliance, renewable energy grid integration, and vibrations of rotating machinery.
- Designed an ammonia analyzing system for monitoring reclaim water quality

University of California Merced: Professor Raymond Chiao's Lab
Lab Assistant
November 2009-May 2011

- Electronic circuit design/fabrication, & fabrication of superconducting samples
- Data recording and analysis

International Paper
Manufacturing Intern
Summer 2010

- Worked on projects dealing with plant waste
- Familiar with topics in packaging design, machine reliability, quality assurance, process steam generation, and waste water treatment
- Developed a system to estimate & claim damaged roll stock, which significantly reduced the labor necessary to perform this task

University of California Merced: School of Engineering
Undergraduate Reader
September 2009-December 2009

- Held office hours for Engineering Statics and Dynamics; grading and homework help

Insitu inc.
Engineering Intern
Summer 2009

- Insitu, a wholly owned subsidiary of Boeing, manufactures small scale Unmanned Aerial Vehicles (UAV)
- Propulsion Engineering, rotating machinery
- Published two Design Study Summaries within Insitu. The first being a forensic analysis of their "Hush Engine" muffler. The second being a comparative analysis of two different cooling shrouds.