

Christine M. Gerpheide
1115 8th Ave ■ Grinnell, IA 50112
(763)232-9210 ■ christine.ger@pheide.com

Objective

I seek to work with a technical and diverse skill set to help design and implement alternative energy systems in transportation.

Employment

DOE National Renewable Energy Laboratory undergraduate solar research (Summer 2008) - Golden, CO
Compile and assess technical capabilities of the photovoltaic (PV) process integration laboratory research and help develop an internal relational database. Write technical descriptions of state-of-the-art deposition and characterization techniques for c-Si, a-Si, CIGS, and CdTe technologies for publication on laboratory website.

NSF and DoD undergraduate research in mechanical engineering (Summer 2007) - Oakland University
Design and visualize new manifolds to optimize reactant distribution in alkaline fuel cells requiring significant interaction with GM, Chrysler, and Ovonic engineers. Intensively utilize CAD/CFD software and design an experiment to validate CFD models and demonstrate effectiveness of mesh membranes within the cell.

Technology Consultant Administrative Coordinator (10/2005-present) - Grinnell College
Provide hardware and software support for Linux, Mac OS, and Windows systems. Supervise and coordinate hiring process and performance evaluations of approximately 90 consultants and helpdesk staff.

Audio/Visual Center Server System Administrator (12/2006-present) - Grinnell College
Administrate Red Hat Linux/Apache system and perform backups. Investigate technical problems.

Skills

CATIA, CFD software (GAMBIT, Fluent, COMSOL), SolidWorks, CNC milling, Java, PERL, XHTML/CSS, Ajax, PHP/MySQL, Linux administration, FileMaker Pro, MS Office, MATLAB, Mathematica, statistics software (R, SPSS). *Languages:* fluent English, conversational Spanish, elementary Greek

Education

Bachelor of Arts in Mathematics and Political Science, Grinnell College, IA, expected Dec 2008 GPA 3.2
Bachelor of Science in Mechanical Engineering, Columbia University, NY, expected May 2011
North Hennepin Community College, Brooklyn Park, MN, 28 credits GPA 3.87 Sep 2003-May 2005

College-level semesters of study completed: 2 Economics including Resource and Environmental, 2 Chemistry, 4 Physics including Thermodynamics, 6 Computer Science, 8 Math including Differential Equations and Statistics, 4 English, 6 Political Science

Honors

Trustee Honor Scholarship, Grinnell College, renewable
AP Scholar with Distinction, 2005

Associations

Society of Automotive Engineers, member
Society of Women Engineers, member
Student Technology Advisory Committee, cofounder
Student Environmental Committee, cofounder, student government liason between students and faculty
Grinnell Hiking Club, founder
Wind Turbine Campaign at Grinnell College