



# Taylor Engineering

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## **GUO (ANNA) ZHOU**

Guo (Anna) Zhou has three years towards a Mechanical Engineering PhD in Building Science Program at University of Colorado (CU) at Boulder and a B.S. degree Mechanical Engineering on HVAC from the top engineering university in China, Tsinghua University.

Her graduate work in CU Boulder includes in-depth studies of HVAC systems design and control including renewable energy, lighting systems, acoustic controls and their building related applications. Her graduate research focused on development and implementation of optimal control of building passive and active thermal storage systems.

Prior to joining Taylor Engineering, she has three years of working experience where she gained expertise in building energy efficiency modeling and life cycle cost analysis for various types of commercial buildings, participated in field investigations of energy efficiency for various buildings. She was extensively involved in developing and maintaining a software database that streamlines building design and energy analysis processes.



## GUO (ANNA) ZHOU

### Education

- 2000 - 2003: University of Colorado, Boulder, CO  
PhD Candidate
- 1994 - 1999: Tsinghua University, Beijing, China  
B.S. HVAC

### Experience

- 2006 - Present: Taylor Engineering, Alameda, CA  
Mechanical Designer  
HVAC system and control system design; AutoCAD drafting and detailing; energy conservation and computerized energy analysis.
- 2003 - 2006 Green Building Studio, Santa Rosa, CA  
Senior Energy Engineer
- Conducted building energy efficiency simulation, analysis and reports using DOE2.2, eQuest, for large varieties of commercial buildings.
  - Developed solar energy/PV panel sizing and analysis tools.
  - Developed and maintained software database that streamlines design and energy/resource analysis process in buildings and was responsible for the integration and updating building energy codes such as ASHRAE 90.1, California Title 24, Oregon State Energy Code, Washington State Energy Code, etc.
  - Conducted numerous field investigations on energy efficiencies of various building systems for various types of commercial buildings.
- 08/00-10/03 Building System Program, Dept. of Civil Engineering, CU Boulder
- 05/01-10/03 Research Assistant  
Projects
- Developing and Implementing On-line Optimal Controls for Building Passive and Active Thermal Storage Systems (Project funded by DOE, PhD thesis topic)
  - Validation of Building Equipment Toolkit-2 (ASHRAE Project)
  - Data and System Analysis and Sensor Calibration of Integrated Teaching and Learning Lab of University of Colorado at Boulder
- 08/00-05/01 Teaching Assistant  
Teaching Assistant, HVAC major courses
- Building Mechanical Systems
  - HVAC System Design



- Building Energy System Experiment

### **Professional Associations**

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)  
Associate Member, 2006 to present

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)  
Student Member, 2000 to 2004

### **Publications**

G. Zhou, P. Ihm, M. Krarti, S. Liu, G. Henze, *Integration Of an Internal Optimization Module Within EnergyPlus*, Proc. 8th Int.l IBPSA Conference, Eindhoven, Netherlands, August 11-14, 2003, Best Paper Award

G. Zhou, M. Krarti, and G.P. Henze (2005), *Parametric Analysis of Active and Passive Building Thermal Storage Utilization*, Journal of Solar Energy Engineering, Vol. 127, No. 1, pp. 37-46, American Society of Mechanical Engineers, New York, New York.