



# Taylor Engineering

1080 Marina Village Parkway, Suite 501 ■ Alameda, CA 94501-6427 ■ (510) 749-9135 ■ Fax (510) 749-9136

## **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.



# Taylor Engineering<sup>LLC</sup>

1080 Marina Village Parkway, Suite 501 ■ Alameda, CA 94501-6427 ■ (510) 749-9135 ■ Fax (510) 749-9136

## GUO (ANNA) ZHOU

### Education

2003 University of Colorado at Boulder, PhD Candidate  
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.

2001 – 2003 Building System Program, Dept. of Civil Engineering, CU Boulder  
Research Assistant. Projects include: 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.

### Professional Associations

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)  
Associate Member, 2006 – present  
Student Member, 2000 – 2004

### Teaching Experience

“Building Mechanical Systems,” “HVAC System Design,” and “Building Energy System Experiment,” teaching assistant, Building System Program, Department of Civil Engineering, CU Boulder, CO, 2000 – 2001.

### Publications

*Parametric Analysis of Active and Passive Building Thermal Storage Utilization*, co-author with M. Krarti and G.P. Henze, *Journal of Solar Energy Engineering*, 2005.  
*Integration of an Internal Optimization Module within EnergyPlus*, co-author with P. Ihm, M. Krarti, S. Liu and G. Henze, *Proc. 8th International IBPSA Conference*, Eindhoven, Netherlands, 2003, Best Paper Award



## **Representative Projects**

2150 Shattuck Central Plant Upgrade  
333 Bush Street, 12<sup>th</sup> floor  
Alpine Square  
Barclays Global Investment HQ  
CASE Initiatives

Center for the Built Environment Study  
EDR Guidelines

Helios Project

Jack London Square Harvest Hall  
Oracle HQ, 500 Oracle Parkway  
Oracle Pleasanton Bldg./Garage  
Pixar Phase II  
Rogers Family Office  
State Central Plant  
Symantec Culver City  
UC Berkeley Bancroft Library

UC Merced Classroom/Office Building  
UC Merced Sierra Terraces Dorm

Berkeley, CA, 138,000 ft<sup>2</sup>  
San Francisco, CA, 17,000 ft<sup>2</sup>  
Walnut Creek, CA, 100,000 ft<sup>2</sup>  
San Francisco, CA, 285,000 ft<sup>2</sup>  
Codes and standards enhancement studies, Title 24  
review for 2008  
Berkeley, CA, underfloor air distribution field study  
Production of design guides for PG&E Energy Design  
Resources Non-Residential New Construction Program  
Berkeley, CA, 144,000 ft<sup>2</sup>, HVAC system design  
concept development, mechanical systems model and  
control optimization  
Oakland, CA, 170,000 ft<sup>2</sup>, LEED CS  
Redwood Shores, CA, 2,000,000 ft<sup>2</sup>  
Pleasanton, CA, 510,000 ft<sup>2</sup>  
Emeryville, CA, 110,000 ft<sup>2</sup>  
Oakland, CA, 11,000 ft<sup>2</sup>  
Sacramento, CA, 35,000 ft<sup>2</sup>, LEED EB  
Culver City, CA, 550,000 ft<sup>2</sup>, LEED NC Gold  
Berkeley, CA, 110,000 ft<sup>2</sup>, energy/savings by design  
modeling  
Merced, CA, 90,000 ft<sup>2</sup>, LEED NC Gold  
Merced, CA, 94,000 ft<sup>2</sup>