



Taylor Engineering

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

C. HWAKONG CHENG

Hwakong Cheng has a M.S. in Civil Engineering from the University of Colorado at Boulder and a Sc.B. in Chemical Engineering from Brown University. After completing his undergraduate degree he spent several years as an environmental consultant, primarily focusing on groundwater and soil remediation. After reflecting on his larger life goals, he shifted his interests to energy awareness and sustainability in the built environment. He returned to graduate school at CU Boulder, where he studied building systems and renewable energy with a focus on efficient and passive design and building energy simulation. His graduate research involved determining the impacts on the cost effective use of passive thermal storage for cooling control.



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Education

- 2004 - 2006 University of Colorado, Boulder, CO
M.S., Civil Engineering
- 1995 - 1999 Brown University, Providence, RI
Sc.B., Chemical Engineering

Experience

- 2006 - Present Taylor Engineering, Alameda, CA
Mechanical Designer, specializes in green building design including load calculations, energy modeling, thermal comfort modeling, system design, indoor environmental quality and commissioning.
- 2004 - 2006 University of Colorado, Boulder, CO
Research Assistant, studied the cost effectiveness and optimal control of using passive thermal storage for cooling control. Evaluated the impacts of various building and system factors on cost savings and control through parametric simulations. Project was funded by ASHRAE research project 1313-RP.
- 2000 - 2006 Tetra Tech EM Inc., San Francisco, CA
Chemical Engineer, conducted remedial investigations and feasibility studies at contaminated soil, groundwater, and landfill sites. Managed multidisciplinary teams and extensive field efforts and led a pilot study for an innovative technology to remediate groundwater sources.
- 1999 - 2000 ICF Consulting, San Francisco, CA
Analyst, performed urban and regional scale air quality modeling of ozone and other criteria pollutants. Developed emissions inventory tools and data processing software.

Professional Associations

- American Society of Heating, Refrigeration, and Air-Conditioning Engineers
Associate Member 2006 - Present
Student Member 2004 - 2006
- American Institute of Chemical Engineers
Member 2000 - 2005
Student Member 1999 - 2000

Honors and Awards

- Grant Awardee, Engineering Excellence Fund, University of Colorado, 2006
- University Fellowship, University of Colorado, 2006
- Honorable Mention, Graduate Research Fellowship Program, National Science Foundation, 2005

Publications

- McCall, J., et al. (Cheng, contributing author). 2004. Demonstration of Zero Valent Iron Injection for In Situ Remediation of Chlorinated Solvents at Hunters Point Shipyard. *Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds*. May 24 - 27, Monterey, CA.

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Chan, D.B., et al. (Cheng, contributing author). 2003. Zero Valent Iron (ZVI) Powder Injection for In-situ Dechlorination of Chlorinated Organic Compounds at Hunters Point Shipyard, SF, CA. Abstract. *5th Environmental Technology Symposium & Workshop. Interstate Technology Regulatory Council*. March 26, Charlotte, N.C.