



## **DEIRDRE MCSHANE**

Deirdre McShane has been a Mechanical Designer at Taylor Engineering since 2010. Ms. McShane received an M.S. in Civil Engineering from Stanford University in the Atmosphere/Energy program and a B.S. in Civil and Environmental Engineering from Duke University. Ms. McShane has previously worked as an Energy Analyst for DPR Construction in Redwood City, California and as a Structural Engineer at Thornton Tomasetti in New York, New York. Ms. McShane is passionate about energy efficient building design and reducing the massive carbon emissions and energy consumption for which buildings are responsible.

As an undergraduate, Ms. McShane founded Duke's student chapter of Engineers Without Borders. She has been extensively involved with the chapter's projects, including leading undergraduates on two 8-week long trips as an alumna. Ms. McShane has worked on building an off-grid, PV-powered health clinic in rural Honduras, worked with an indigenous NGO in Uganda to create sustainable energy solutions for the community, built a mechanical aerator to increase shrimp hatchery yields in Sumatra, Indonesia, and constructed rock boxes for erosion protection in Papua, Indonesia.



# Taylor Engineering<sup>LLC</sup>

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

## DEIRDRE MCSHANE

### Education

2009 Stanford University, M.S. Civil and Environmental Engineering: Atmosphere/Energy  
2005 Duke University, B.S. Civil and Environmental Engineering: Structures and Mechanics

### Certification and Accreditation

2005 Engineer in Training, #A-21673

### Experience

2010 – Present Taylor Engineering, Alameda, CA  
Mechanical Designer.

2009 – 2010 DPR Construction, Redwood City, CA  
Energy Analyst/Modeler. Created a software tool that evaluates energy efficiency strategies for buildings in terms of percent energy savings, life-cycle cost savings, and reduction in greenhouse gas emissions.

2008 – 2009 Duke University, Durham, NC  
On-the-Ground-Coordinator. Lead groups of Duke University undergraduate students on eight-week civic engagement trips to Uganda and Honduras as part of the DukeEngage program and Engineers Without Borders.

2006 – 2008 Thornton Tomasetti, New York, NY  
Structural Engineer. Designed steel and concrete structures, concrete foundations, and produced schematic and construction level documents for major buildings, including the Yale Biology Building at Yale University, designed by Cesar Pelli; the Connecticut Science Center, also designed by Pelli; the Physical Sciences Building at Cornell University; and a data center for the now defunct Lehman Brothers.

### Professional Associations

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)  
Associate Member, 2010-present

United States Green Building Council  
Member of the Northern California Chapter of Emerging Green Builders, 2009-present

Engineers Without Borders  
Professional Member, 2006-2008  
Student Member, 2004-2005

American Society of Civil Engineers (ASCE)  
Student Member, 2002-2005