

EDUCATION

- ◆ Massachusetts Institute of Technology
BS in Environmental Engineering, 2011

EXPERIENCE

- 02/13- Present MBK Engineers, Sacramento, CA
[Junior Civil Engineer](#)
Support staff for reservoir operations and hydrologic modeling.
- 10/12 – 01/13 NASA Ames Research Center, Mountain View, CA
[Research Assistant](#), *Space Science and Astrobiology*
Worked to develop techniques for modeling water flow and sediment transport in Martian gullies using digital elevation models based on HiRISE satellite imagery.
- 03/12-06-12 Bureau of Land Management & Americorps, Price, UT
[Assistant Stewardship Intern](#), *Cleveland-Lloyd Dinosaur Quarry*
Performed visitor center duties including interpretation, trail maintenance and development and presentation of educational programming to visitors. Assisted with excavation and fossil preparation at the Price Prehistoric Museum.
- Spring 2010,
Spring 2011 Massachusetts Institute of Technology, Cambridge, MA
[Teaching Assistant](#), *Edgerton Outreach Center*
Assisted with the preparation and presentation of laboratory outreach education.
- 07/10-09/10 Intercontinental Consultants and Technocrats, Pvt. Ltd., New Delhi, India
[Summer Trainee](#), *Pool of Consultants, Environment Department*
Wrote independent report on “Community Awareness for Judicious Use of Water in Delhi.” Performed literature review and stakeholder consultations, evaluated best practices and made recommendations for improving community awareness for water issues in the state of Delhi.
- 09/08-05/09 Massachusetts Institute of Technology, Cambridge, MA
[Co-Teacher](#), *MIT Experimental Studies Program: Advanced Placement Preparatory Courses*
Developed and co-taught Advanced Placement Biology curriculum to class of 17 high school students.

DESIGN AND LABORATORY EXPERIENCE

Massachusetts Institute of Technology, Cambridge, MA

Cowbone Marsh Restoration Design, *Department of Civil and Environmental Engineering*, Spring 2011
Performed sediment load and hydraulic analysis for dredged channel through Cowbone Marsh in the South Florida Water Management District. Designed placement of four v-notch weirs to raise head in the channel. Formatted team's report for submission to the SFWMD.

Recycled Tire Bridge Team, *Department of Civil and Environmental Engineering*, Spring 2011
Designed and built ten-foot long foot bridge of pre-tensioned automobile tires, capable of supporting one ton. Performed hydraulic analysis for placement of the bridge in northern Ghana.

Ecotoxicity Experiment, *Department of Civil and Environmental Engineering*, Spring 2010
Designed and performed ecotoxicity assay for toluene on *Daphnia magna*. Extrapolated dose-response curve and discussed ramifications for Deepwater Horizon oil spill.

Bicycle Generator Team, *Department of Civil and Environmental Engineering*, Spring 2009
Developed inductive bicycle generator that charges a phone in both mobile and stationary settings.

Team "Seismic Survival," *Department of Mechanical Engineering, Toy Product Design*, Spring 2008
Designed competitive construction game displayed in the Lowell Children's and MIT Museums.