

## Student Enviro Eng

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### EDUCATION

#### Massachusetts Institute of Technology (MIT) – Cambridge, MA

##### *Master of Engineering in Environmental Engineering*

2014 (expected)

- Relevant Coursework: Strategies for Sustainable Business, System Dynamics, Sustainable Energy, Applications of Technology in Energy and the Environment, Design for Sustainability

#### Cornell University – Ithaca, NY

##### *Bachelor of Science in Civil and Environmental Engineering*

2010

- GPA 3.57/4.00 (**Cum Laude**), Chi Epsilon Honors Society
- Semester Abroad, University of Melbourne, Melbourne, Australia, 2004
- Relevant Coursework: Engineers for a Sustainable World, Sustainable Small-Scale Water Supplies, Solving Environmental Problems for Urban Regions

### EXPERIENCE

#### Camp Dresser & McKee (CDM) – Cambridge, MA

##### *Environmental Engineer*

2010-2012

##### **Harvard University Allston Campus**

- Delivered sustainable technology assessment to compliment the campus's low-carbon design strategy. Presented findings to 50 employees through teleconference.
- Managed the design development of the utility system; wrote 4 chapters of 13 chapter report. Coordinated submittal of design report and associated CAD drawings.
- Facilitated a multi-discipline (6), multi-consultant (15) project team; led client, agency and subcontractor communications; developed technical reports and \$300,000 budget; managed staff of lower grade levels.
- Technical lead for the evaluation of on-site deep heat geothermal energy; performed a cost analysis and carbon inventory. Wrote 5 of 8 chapters of the feasibility report.
- One of 15 chosen from 4,000 employees to be featured in the company's annual report.

##### **Sustainable Wastewater Treatment Plant Design**

- Secured a Massachusetts Technology Collaborative (MTC) grant for the feasibility of converting fats, oils and greases to biofuels to jointly reduce a sewer system nuisance and the plant's reliance on fossil fuels.
- Evaluated sustainable features for a wastewater treatment plant upgrade including an assessment of stormwater management, green building design and construction, and potential energy technologies targeted to reduce operating costs. Recommendations included in 30% project design submittal.

##### **City of Salem Water Conservation Planning**

- Developed water conservation recommendations and a comprehensive implementation plan for the city's Engineering Department.
- Recommendations embraced by the City Mayor. Presented findings to the community at a televised public meeting.

##### **Sulabyia, Kuwait Wastewater Treatment Plant**

- Evaluated the potential for innovative disposal options for reverse osmosis waste brine at the Sulabyia, Kuwait wastewater treatment plant.
- Specifically evaluated options for wetland treatment, saline farming, irrigation of turf fields, bioreactor landfill water source, phosphorus recovery, and deep well injection.

#### Engineers for a Sustainable World – Ithaca, NY/La 34, Honduras

##### *Project Team Member*

2009-2010

- Designed a water treatment plant for the small village of La 34, a farming community of approximately 100 families near the northwest coast of Honduras.
- Trained community members to self-sufficiently run the water treatment plant; plant is still operating successfully.

#### Cornell University – Ithaca, NY

##### *Teaching Assistant/Laboratory Assistant*

2009-2010

- Helped 40 students design, build and automate miniature water treatment plants using LabVIEW software.
- Facilitated a fluid mechanics laboratory including the setup and supervision of hydraulic experiments.

#### University of Southern California/Camp Dresser & McKee (CDM) – Los Angeles, CA

##### *Sustainable Cities Undergraduate Fellow*

2010

- Worked with a diverse team of students, academics and professionals to incorporate urban sustainability into the development of a rapidly expanding Los Angeles School District school system.
- Recommended sustainable features adopted in a prototype environmental impact report.

### CERTIFICATIONS AND SKILLS

- Engineer in Training, April 2010
- Eligible for Professional Engineering Licensing Exam in 2014
- Hydraulic calculations using MathCAD
- Water Distribution Modeling using H2OMap Water