

Camille A. Wasden

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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Candidate for S.B. Chemical Engineering

June 2013

GPA: 4.9/5.0

Relevant Coursework: Chemical and Biological Engineering Thermodynamics, Fluid Mechanics, Introduction to Chemical Engineering, Thermodynamics and Kinetics, Organic Chemistry, Laboratory Chemistry, Differential Equations, Multivariable Calculus, and Physics (Mechanics and E&M)
Fall 2011: Biological Chemistry, Transport Processes, Introduction to Sustainable Energy

EXPERIENCE

Pioneer Natural Resources

Irving, TX

Engineering Intern, Gas Processing Department

June-Aug 2011

- Experimental test of O₂ removal catalyst system on a side stream of natural gas
 - Designed vessel; coordinated catalyst and vessel purchase/delivery and installation
 - Determined the catalyst's most likely chemical mechanism from vendor information
 - Proved catalyst works in this process, recommended further testing of catalyst lifetime
- Completed sizing calculations for a heat exchanger and a gas/condensate separator; requested quotes from several vendors and worked through design details, pricing, and purchasing

University of Utah, Chemical Engineering

Salt Lake City, UT

Research Intern

June-Sept 2010

- Ran a series of CO₂ sequestration experiments at high temperature and pressure, using spent shale, brine, and CO₂; analyzed corresponding data.
- Found that CO₂ sequestration occurs in stable carbonate forms within 4 - 6 weeks
- Compiled summary of data for final presentation to graduate student and professor

MIT Introduction to Chemical Engineering Class

Cambridge, MA

Student, Partner Project Participant

Spring 2010

- Modeled dynamic and batch systems using MatLab
- Simulated and optimized production in a multi-step batch process (partner project)
- Presented simulation and results to professors in a business-type setting

Introduction to Lean Six Sigma Methods, MIT

Cambridge, MA

Student, Program Participant

January 2011

- Organizational productivity training for manufacturing, health care, & other sectors

SKILLS

Computer: Proficient with MatLab, Microsoft Office

Language: fluent in spoken Japanese, lived in Japan for 6 years

LEADERSHIP

Institute Council, Cambridge LDS Institute of Religion

Cambridge, MA

Vice President

Sept 2010 – Present

- Organize weekly religion classes and subsequent socials for over 500 students
- Work with Institute faculty and the 3 other Institute Council members

Undergraduate Practice Opportunities Program, MIT

Cambridge, MA

Sophomore Participant

2010-2011

- Professional Development and Engineering Leadership Training

MIT ACTIVITIES

Keys to Empowering Youth (KEYS) Mentor (Fall 2009 – Present), **Green Ambassador** (Fall 2009 - Present), **Society of Women Engineers** (Fall 2009 – Present), **Energy Club** (Fall 2009 - Present), **Latter-Day Saint Student Association** (Fall 2009 – Present)

AWARDS/HONORS

US Presidential Scholar, US Department of Education (State of Utah Representative, 2009);

National Merit Scholar Finalist (2009); **Ranked 1 out of 620 in High School Class** (2009)