

HEENA MUTHA

Campus

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Permanent

2939 Willow Ridge Dr.
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EDUCATION

Franklin W. Olin College of Engineering-Needham, MA

May 2010

Candidate for Bachelor of Science in Mechanical Engineering, GPA: 3.84/4.00

- Received four-year, full-tuition scholarship
- Relevant Coursework: Teaching and Learning in Undergraduate Science and Engineering, Teaching and Curriculum in Middle School and High School, Diversity in Education, User-Oriented Collaborative Design

WORK EXPERIENCE

Academy for Educational Development, Washington D.C

Jan 2009

- Improved the International Institute for Education Planning (IIEP) workforce model of public schools
- Programmed classrooms, teachers, and school-level parameters into model using Excel

Johns Hopkins Center for Talented Youth Program- Teaching Assistant

Jun 2008 - Aug 2008

- Taught Principles of Engineering Design to 7th-10th grade students
- Mentored students in their design projects and engineering proposals
- Prepared lectures, assignments, and tests on high school physics and algebra

Introductory Courses Assistant, Olin College

Sept 2007 - Dec 2008

- Tutored first-year students in single-variable calculus and reviewed homework assignments
- Facilitated Modern Biology lab by overseeing experiments and answering questions

COURSEWORK

Teaching and Learning in Undergraduate Science and Engineering

Jan 2010- Mar 2010

- Developed a teaching portfolio complete with a lesson plan and teaching philosophy
- Read and discussed topics relevant to STEM education including: teaching and learning methods, pedagogies, learning styles, and diversity

Teaching and Curriculum, Wellesley College

Sept 2008 - Dec 2008

- Observed 5 math and science high school classrooms at Natick High School
- Researched and discussed influences on a child's education: developmental psychology, parent-teacher relationships, cultural and socioeconomic barriers, standardized assessments
- Wrote a novel, application-based 7-day unit on thermodynamics and renewable for 9th grade physics

LEADERSHIP AND ACTIVITIES

Engineering Discovery, Olin College- Program Coordinator

May 2007 - Present

- Started a service program for Olin undergraduates to teach engineering to elementary school children
- Supervised 15 Olin students in hands-on curriculum development
- Organized several school programs for Boston area 4-8th graders