
SAREENA N AVADHANY

3 Ames St, Box 54
Cambridge, MA 02142
USA

Email: sareena@mit.edu
Tel: +1 408 515 3899

OBJECTIVE	Seeking an internship for the summer of 2010 in an energy related industry. Interests include transportation, batteries, sustainable development, renewable resources
EDUCATION	Massachusetts Institute of Technology <i>Cambridge, MA</i> Candidate for Bachelor of Science in Mechanical Engineering, 2012 GPA 4.0/5.0 Relevant Coursework by Jan 2010: Intro Mechanics, Organic Chemistry, Differential Equations, Newtonian Mechanics, Solid State Chemistry, Calculus, Electricity and Magnetism, Ecological Biology
EXPERIENCE	MIT Institute for Soldier Nanotechnologies <i>Cambridge, MA</i> <i>Research Intern, Jun '09-Present</i> Worked with a Ph.D. student in Chemical Engineering to develop novel drug delivery mechanisms for rapid wound healing. Deposited known antibiotics onto silicon substrates as polymer films. Released films in solution, measuring concentration of drug using HPLC fluorescence technique. Currently conducting bacterial assays to test antibacterial effectiveness of released drug. UC Berkeley Nanosciences and Nanoengineering Institute <i>Berkeley, CA</i> <i>Intern, Jun-Aug '07</i> Designed and fabricated microfluidic devices. Established long-lasting gradients in devices as basis for understanding stem cell response to gradients of specific chemical solutions. San Jose High Robotics Team <i>San Jose, CA</i> <i>Co-Captain '07-'08, Vice President '06-'07</i> Aided in prototyping and building. The team participates in the Silicon Valley FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition. Team was San Jose Regional First Place winner in 2006 and competed in the FIRST National Competition in Atlanta, GA.
OTHER	MIT Taekwondo <i>Member Sep '09 - Present</i> Training in MIT's largest and most successful martial arts club. Basant Bahar <i>Volunteer, 05' - 08'</i> Videographer and archivist for San Francisco Bay Area's oldest Indian Classical music organization Chhandam Youth Dance Company <i>Principle Member '02-'08</i> Preserving and promoting North Indian Classical Dance (Kathak) in the San Francisco Bay Area. Stories of Service <i>Exec. Producer, '05 - '08</i> Interviewed and documented digital histories of San Francisco Bay Area WWII veterans, which are permanently archived in the Library of Congress.
SKILLS	Equipment: HPLC (High Performance Liquid Chromatography), Profilometry, Other: Bacterial Assays, Pipetting, Excel, Word, Powerpoint, Basic Spanish
HOBBIES	Kathak (Indian Classical Dance), Photography, Piano

UPDATED 9/2009