

Linda Yu Liu

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Education **Massachusetts Institute of Technology** Cambridge, MA
Candidate for Bachelor of Science Degree in Mechanical Engineering and Bachelor of Science Degree in Mathematics June 2011; GPA: 4.9/5.0

Relevant Coursework: Mechanics and Materials I & II, Thermal-Fluids Engineering I & II, Dynamics and Control I & II, Nonlinear Dynamics and Chaos, Fundamentals of Engineering Design, Design and Manufacturing I & II, Measurement and Instrumentation, Autonomous Robot Design Competition, Mechanical Engineering Tools

Research Experience **Engineer Research and Development Center (ERDC): Researcher** *June '09 – August '09*
Developed physics-based virtual LIDAR sensors for use in the Virtual Autonomous Navigation Environment program; developed algorithm for simplifying vegetation models; reviewed current research on LIDAR and levels of detail modeling.

Undergraduate Research Opportunity (UROP): Researcher *October '07 – January '08*
Lead an engineering design class in order to study the design process by analyzing data collected during the class; reviewed current research on engineering design.

Work Experience **Art of Problem Solving, Inc: Grader** *October '07 – Present*
Graded student solutions from national math competitions and online math classes sponsored by AoPS such as USA Math Talent Search and the USA Math Olympiad

Coca Cola Tianjin: Intern *June '08 – August '08*
Worked in supply management and warehouse management, assisted the planning department and supply management department in coordinating supplies for Olympics operations.

MIT: Tech Caller *September '07 – January '08*
Contacted MIT alumni to provide a link between alumni and the institute, helped solicit funds for MIT and keep alumni up-to-date on class reunions and other events of interest.

Leadership United States Military Academy Summer Leaders Seminar (in West Point, NY, June '06), Pi Tau Sigma officer, Immobile officer, Habitat for Humanity organizer, Impact Career Fair coordinator, Captain of high school math team, Co-captain of Georgia math team, President of Mu Alpha Theta, Officer of Future Educators Association

Skills Matlab, Mathematica, Solidworks, Python, MS Word/Excel, HTML, Languages: Mandarin, Spanish.

Awards, Honors Tau Beta Pi, Pi Tau Sigma and Mu Alpha Theta Honor Societies; Graduated 5th out of 562 in high school; perfect ACT score: 36; SAT: 2340; National Merit Finalist; National AP Scholar; USAMO finalist; high scorer at national math competitions; Scholarships from: Nancy Penn Lyon, Patillo, American Society of Military Comptrollers, Atlanta Toyota.

Activities Tae Kwon Do: black belt 1st dan, Habitat for Humanity organizer, Breakdance, Freestyle hip-hop, Tennis, Chinese yo-yo, Piano, Chinese harp.