AMY LEUNG

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Education

Massachusetts Institute of Technology (MIT) — Cambridge, MA
Candidate for Bachelor of Science Degree in Chemical Engineering — June 2010
GPA: 4.7/5.0
Relevant Courses: Thermodynamics & Kinetics, Transport Processes, Chemical Kinetics & Reactors, Chemical Engineering Project Laboratory.

Experience

Kimberly-Clark — Loudon, TN
Process Engineering Co-op — May-August 2009
Created functional specifications for new recycled fiber refiner. Performed quality tests on recycled mill water and hand towels. Designed and implemented plan to calibrate basis weight readings of hand towels against automatic scanners.

MIT Hammond Research Group — Cambridge, MA
Researcher — June 2007-May 2009
Designed experiments for extended release of an antibiotic and created drug delivery coatings for intraocular lenses. Embedded drugs in multilayer polymer films and studied their thickness and release rates. Created polymers and analyzed them through gel permeation chromatography. Performed cell culture experiments. Published as second-author in *Chemistry of Materials.*

TRI/Princeton — Princeton, NJ
January Extern — January 2009
Performed research on hair and dyes for companies that market hair products. Designed hair samples for use inside microwell plates. Determined properties of two fluorescent dyes by performing fluorescence and absorbance tests on hair samples dyed in varying conditions of them.

Technische Universität Dresden — Dresden, Germany
Intern — June-August 2008
Set up a pilot plant to analyze depletion of chlorine in water distribution systems. Conducted experiments to determine settling properties of iron corrosion products.

MIT Crystal Physics and Ceramics Laboratory — Cambridge, MA
Researcher — June-September 2007
Optimized ink-jet printing of barium acetate and polymethyl methacrylate microspheres for gas sensor chips. Devised a method to print thin sensor films onto a microchip with programmable electronic inkjet print head. Research published in *Sensors and Actuators B: Chemical*.

Leadership

Society of Women Engineers, *Treasurer* (2008-Current), *Secretary* (2007-2008)
Outlined a $90,000 budget for yearly activities. Created guidelines for reimbursements and kept track of expenses. Organized locations for meetings, outreach and networking events, and study breaks.

Program for Undergraduate Leadership and Success, *Mentor* (2008-Current)
Fostered leadership development in an underclassman by providing guidance on leadership, academic, career, and social aspects of MIT.

Alpha Chi Omega, *Chi Connections Chair* (2008-Current), *House Manager* (January-June 2009)
Plan social activities to be held in place of chapter meetings. Worked with the House Corporation Board to maintain the chapter house's condition. Delegated chores and made sure facilities ran smoothly and efficiently for 26 residents.

Honors/ Awards

Society of Women Engineers Boston Scientific Scholarship Recipient, 2009
DAAD (German Academic Exchange Service) Scholarship Recipient, 2008
Participant in the China Synergy Programme for Outstanding Youth, 2008
Membership in The National Society of Collegiate Scholars, 2007-Present
Greater New York Community Dollars for Scholars Recipient, 2006-Present
Chapter Scholar of New York State Society of Professional Engineers, 2006
Robert Castrignano Award for Excellence in Chemistry, 2006

Skills

Computer: Aspen, MatLab, Microsoft Office, Open Office
Language: Fluent in Cantonese, Familiar with Mandarin