Vivian Dien

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EDUCATION

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
Candidate for B.S. in Materials Science & Engineering w/ minors in Energy Studies & Applied International Studies *June 2013*

- Cumulative GPA of 4.6/5.0
- Relevant Coursework: Structure, Thermodynamics & Mechanical Behavior of Materials; Organic & Biomaterials Chemistry; Polymer Engineering; Energy Economics & Policy; Energy Markets & Decisions; Materials Processing Lab
- D-Lab: Energy – project-based class including 1 week trip to rural Nicaragua to work with an NGO; assessed relevant low cost energy solutions, taught agri-waste charcoal making process, assessed solar panel manufacturing and usage

Green Valley High School (GVHS) **Henderson, NV**

- International Baccalaureate Diploma; Valedictorian in class of 598 students; Weighted GPA of 4.8/4.0 *June 2009*

WORK EXPERIENCE

Singapore Univ. of Technology & Design (SUTD) **Singapore, Singapore**
Undergraduate researcher (UROP) *June – August 2012*

- Conducted experimental research on the use of magnetized tea waste to remove heavy metals from wastewater

Transsolar Climate Engineering **New York, NY**
Intern *January 2011*

- Technical consulting firm for energy efficiency and environmental quality in buildings
- Created separate tools for evaluating economic life-cycles of projects and the heat transferability of glazing units
- Synthesized data from U.S. EIA to initiate energy benchmarking and set feasible energy targets for a commercial client

Centro de Investigaciónes, Energéticas, Medioambientales, y Tecnológica (CIEMAT) **Madrid, Spain**
Intern *June – August 2011*

- Explored the use of spectrophotometry to characterize series resistance of solar cells; adapted electroluminescence imaging apparatus into photoluminescence imaging to evaluate differences in characterization

Belcher Lab - Bio-molecular Materials Group, MIT **Cambridge, MA**
Undergraduate researcher (UROP) *Feb. – May 2010*

- Performed purification of viral DNA and analyzed DNA sequences for Carbon Sequestration Research

LEADERSHIP EXPERIENCE

MIT-SUTD 5th Row Leadership Progamme, *Mentor* *June – August 2012*

- Served as a mentor for pioneer freshmen class of Singapore Univ. of Technology & Design; helped students actualize extra-curricular activities and school organizations

MIT Society of Women Engineers, *Media & Marketing Chair* *Dec. 2009 – present*

- National mentorship & networking organization; create & design publicity posters, videos, and apparel

MIT Women's Volleyball Club, *Home Tournament Director* *Sept. 2009 – present*

- Organize biannual tournaments in liaison with Yankee League & New England Region Volleyball Association; organize Co-ed tournament for MIT community; handle heavy logistics and large sums of money

Kappa Alpha Theta Sorority, Zeta Mu Chapter, *Chief Education Officer*, *Nominating Committee, References Chairman, Executive Recruitment Board, Membership Development Committee* *Sept. 2009 – present*

- Member of Executive Board; oversee Education committee, new member education program, and chapter scholarship; slated new officers; obtained references and information for recruitment of new members; helped oversee chapter development and served as a resource while maintaining confidentiality

GVHS Gator Green, *Vice President* *Sept. 2008 – May 2009*

- Recycling and Environmental Club; helped maintain newly founded school wide recycling program

ACTIVITIES & AWARDS

MIT International Science & Technology Initiatives (MISTI), *Ambassador, fellowship recipient* *May 2011 –present*
MIT Asian American Association, *Board member* *May 2011 – May 2012*
Materials Science Laboratory "Best Poster – Instructors' Choice" *Nov. 2010*

SKILLS & INTERESTS

- Laboratory: Atomic Absorption Spectroscopy, Uniaxial Compression Testing, X-Ray Diffraction, Vibrating Sample Magnetometer, Spectrophotometry, QIAGEN DNA Purification, basic wet lab & machining skills
- Computer: Python; Mathematica; VBA for Excel; Photoshop; Microsoft Office
- Languages: Spanish (advanced), Mandarin Chinese (intermediate), Cantonese (conversational)
- Special interest in sustainability; renewable energy; literature; foreign languages; international development