Candice Murray

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Education Massachusetts Institute of Technology

Cambridge, MA

Candidate for Bachelor of Science Degree in Physics. June 2011

Relevant Courses: Classical Mechanics, Electricity and Magnetism, Waves and Vibrations, Relativity, Calculus (Single and Multivariable), Differential Equations, Linear Algebra, Quantum Mechanics, Statistical Physics, Introduction to Electronics.

GPA 4.4/5.0

Experience The Pennsylvania State University Physics Department

State College, PA

Intern

Summer 2009. Conducted research on band-gap inducement in bilayer graphene. Made graphene and used it in production of nanoscale devices for band-gap testing.

University of Utah Physics Department

Salt Lake City, UT

Intern

Summer 2008. Conducted research on universal long time behavior of atomic spins using Nuclear Magnetic Resonance. Constructed new spectrometer to be used for Nuclear Magnetic Resonance.

Summer 2006. Assisted with laboratory research projects dealing with the hyperpolarization of noble gases for use in magnetic imaging.

MIT Experimental Studies Group (ESG)

Cambridge, MA

Teaching Assistant

Fall 2008-Present. Multivariable Calculus (18.02) and Differential Equations (18.03). Teach recitation sections focusing on improving problem solving abilities and deepening understanding of course concepts.

Leadership

Co-Coordinator, Keys for Empowering Youth program. Planned and executed outreach sessions for middle school girls promoting interest in science and engineering. Spring and Fall 2009. Also mentored for the program (assisted with program execution, lead groups of girls in various activities throughout the program). Fall 2007-Spring 2009.

President, MIT Latter-Day Saint Student Association. Leadership positions Fall 2008-Present.

Board Member, Society for Women Engineers. Spring 2009-Present.

Awards/ Skills

Robert C. Byrd Honors Scholarship, awarded for outstanding academic excellence. 2007-Present.

Finalist at the International Science and Engineering Fair (ISEF). May 2006.

Atomic Force Microscope (AFM), basic machine shop and electronics fabrication proficiency, Windows and some Macintosh operating systems, basic SolidWorks and MATLAB.