Mayowa Omokanwaye

301-395-4620 | 8106 River Park Rd. Bowie MD 20715 | mayowao@mit.edu

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EDUCATION

Massachusetts Institute of Technology, Candidate for B.S. in Mathematics May 2017 (expected), Relevant Coursework: Classical Mechanics I & II, Electricity & Magnetism I & II, Relativity, Electricity and Waves, Calculus I & II, Differential Equations, Real Analysis B, Algebra I & II, Topology, Logic I, Functional Analysis, Quantum Mechanics I & II

RESEARCH EXPERIENCE

NASA Marshall Space Flight Center (MSFC), Huntsville, AL **Summer 2013**

Research Intern

- Aided in construction of vacuum chamber used for studies
- Provided significant contribution to the study of new method for measuring thin film stress during film deposition
- Displayed measurement correspondence between stress measurements measured and expected deposition film stress patterns
- Presented findings during an on site poster session with nearly 80 other summer interns

Laser-Interferometer Gravitational-Wave Observatory (LIGO), Livingston, LA **Summer 2012**

Research Intern

- Gained understanding of systems used at LIGO for gravitational wave detection in order to test installed systems
- Investigated the installed electronics for the LIGO interferometers and examined their ability to cross talk amongst systems as well as their sensitivity to external electromagnetic fields
- Presented findings on site with 30 other students chosen to participate in Caltech's Summer Undergraduate Research Fellowship out of hundreds of applicants

NASA Goddard Space Flight Center (GSFC), Greenbelt, MD **Summer 2011**

Research Intern

- Determined whether coatings used on NASA's structural and electronic parts meet required standards
- Performed various laboratory procedures and tests for coating properties in the Thermal Coatings and Contaminations Department
- Presented findings to various Goddard Space Flight Center faculty

WORK EXPERIENCE

American Psychological Association, Washington, DC **Summer 2015**

Finance Intern

- Audited expense reports and check requests for accreditation related costs
- Researched and organized materials to help handle unclaimed property
- Analyzed and recorded monthly investment portfolios

SKILLS

Java (learned from intensive 4 week course at MIT)
Arduino® Programming Language (similar to C++) (used in research at UMD)
Vacuum chamber experience (from LIGO and MSFC)
Matlab/Mathematica (used in classwork/during LIGO)
Microsoft Word, Excel, & PowerPoint ® (expert skills, used often to organize and present data)

ACTIVITIES

High School Physics Tutor Spring 2014, Physics I&II: Classical Mechanics Teaching Assistant Fall 2012, MIT URGE (Undergraduate Reading Group Experience) Number Theory Group Fall 2012, MIT Solar Electric Vehicle Team Fall 2011