JOHN W. THOMAS, JR

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PROFILE

A meticulous, focused, and hardworking Physics major with excellent interpersonal and communication skills developed through oral presentation experience, collaboration, and networking within team-centered environments. Has the ability to both program and engineer an accelerometer for CubeSat, along with creating large test code on supercomputers. Proficient in LINEX, JAVA, and PYTHON

ACADEMIC QUALIFICATIONS

Bachelor of Science in Physics Minor in Mathematics May 2020
Fisk University Nashville, TN

- Methods in Theoretical Physics
- Intermediate Electricity and Magnetism
- Theoretical Mechanics
- Calculus I ● Calculus II ● Calculus III

RELEVANT RESEARCH & INTERNSHIP EXPERIENCE

Internship Summer 2019
Information Systems at Nissan American Franklin, TN

- Responsible for creating a pitch deck for a digital asset sharing network
- Conducted meetings and facilitated presentations to grasp how Nissan utilizes digital assets
- Upon conclusion, presented the pitch deck to several directors and senior managers

Student Researcher/ Lab Technician Summer 2018
Department of Chemistry, Fisk University Nashville, TN
Mentor – Dr. Joy Garnett
Hypothesis: Is there a better luminescent crystal the standard CHC

- Organized and prepared data for various experiments
- Coded the optimized crystal structure for the luminescent crystals
- Performed tests to determine if certain crystals could be adjusted to perform better
- Conducted simulations in the Vanderbilt ACCRE (Advanced Computing Center for Research and Education)

NSF REU – Student Researcher Summer 2017
Department of Physics, Vanderbilt University Nashville, TN
Mentor – Dr. Kevian Stassum and Dr. Caleb Wheeler
Hypothesis: If there is a gyroscope in a CubeSat will it be able to tell where it is in 3D space

- Performed experiments on an accelerometer that went on a CubeSat
- Facilitated unique coding calculations using an Arduino.
- Utilized code from the Arduino adjusting it a little and downloading it into the accelerometer

AWARDS, ACTIVITIES AND INTERESTS

Member, Honda Campus All-Star Challenge (HCASC) National Championship, 2018 - Present
Best poster presentation, Vanderbilt REU Summer 2017
Member, Rocket Team, Fisk University 2016 – Present
Member, Physics Club, Fisk University 2016 – Present