**Ima Senior**

139 Graduate Road Huntsville, AL 35816 • (256) 124-7896 • ima.senior22@bulldogs.aamu.edu

**Physics Major** seeking to obtain a full-time opportunity

* Proficiency with C++ and MATLAB
* Familiar with Microsoft Office Suite • Maplesoft • COMSOL • Zemax • Microsoft Visual Studio • LabView • AutoCAD • SolidWorks
* Knowledgeable of lab room and clean room protocol
* Ability to think critically and perform statistical and error analysis
* Efficiently conduct independent or group laboratory research and accurately record data
* Capable of using an x-ray diffraction machine and scanning electron microscope

**EDUCATION**

Alabama A&M University Normal, AL

**B.S., Physics GPA: 3.5/4.0**  May 20xx

**Awards & Honors:** Phi Beta Kappa Honor Society, Fall 20xx – Present ●Dean’s List, Spring 20xx – Present **●**AAMU Heritage Scholarship Recipient – Fall 20xx

**Related Coursework:** Introduction to Programming I&II ● Mechanics I & II ● Optics ● Introduction to Solid States ● Electricity & Magnetism ●Introduction to Quantum Mechanics

Applied Differential Equations ●Heat & Thermodynamics

**INTERNSHIP EXPERIENCE**

**USA Laboratory | Intern** Washington, D.C. Summer 20xx

* Performed SRIM simulations of solar wind isotopes into Genesis probe’s primary target

 material for comparison and corrections to mass spectrometry measurements

* Modeled ion erosion and self-armoring for interplanetary dust and micrometeorites
* Performed statistical and error analysis of the results from SRIM simulations

**ABC Space Company | Physics Intern**  Springfield, MD Summer 20xx

* Designed, outlined, programmed, and tested a modular autonomous robot with multifunctional

transmissions, accurate and robust dead-reckoning navigation with error correction, and

functional aesthetics

* Developed, fabricated and programmed various prototypes of a multiple input touchscreen interface;

conducted an analysis to determine costs to market, manufacture and develop project

* Ran analysis on the WFIRST baseline optical model and placed the data in graphs and tables

so that it matched similar documentation that was produced for JWST

* Ensured the baseline optical models for WFIRST in both Zemax and CodeV matched

**SPECIAL PROJECTS**

**NASA SERI Rocket Research Project** Fall 20xx

In collaboration with NASA, worked with a team of six to construct an 8 foot sounding rocket with the SERI Rocket Program. Recognized for having the first successful non-pyrotechnic recovery system to deploy.Designed and constructed the rocket’s pay load system and recovery system from scratch.Simulated and predicted the trajectory of the rocket using RockSim.

**Lab Experience**

* Setup up a standard Michaelson interferometer for use in identifying the index of refraction of air
* Designed a telescope with a specified f/# and field of view and a zoom camera lens for small object viewing at both 10 and 20 ft

**LEADERSHIP**

* President, Physics Club August 20xx– May 2xx