Mitchell T. Dodson

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Physics
Mathematics
Computer Science

602J-3 John Wright Drive
Huntsville, AL 35805

keywords

Applied and Theoretical Physics, Mathematics, 3.938 GPA, Python, UNIX-like SysAdmin, LaTeX, Eagle Scout, Perl

education

2018 - present

Currently attending the **University of Alabama in Huntsville** Honors College, seeking a double major in Physics (Applied and Theoretical conc.) and Mathematics, with a Computer Science minor. **98 hours** completed with a **3.923 GPA** (4.0 Major GPA), expecting to graduate May 2022

2014-2018

Attended **Greenwood High School** in Bowling Green, Kentucky. Took an AP-heavy schedule, earning 33 college credit hours before graduation, covering nearly all needed non-core courses

activities and experience

2019-Present

NASA SPoRT Student Programmer - Designing **dynamic webpages** and internal software for **data transition** and **storage**

2019

NASA SPoRT Student Programmer -

1. Overhauled **data analysis** and **image composition** capabilities for SPoRT MAG4 solar weather forecasting software
2. Worked closesly with professional Atmospheric Scientists and Heliophysicists to develop algorithms to accurately predict the evolution of solar events

2011-2018

Member of BSA troop 1705, and the Order of the Arrow. Achieved **Eagle Scout** rank in June 2018. Awarded over than 30 merit badges. 2-term **Senior Patrol Leader**

skills

physics/math

Earned an A in Probability and Statistics, Calculus 1-3, General Physics 1-3, Differential Equations, Linear Algebra, and other related classes; Learned and applied heliophysics principles for MAG4 data analysis

programming

1. **LaTeX** for formatting and typesetting documentation and technical information
2. Python image manipulation and data analysis with matplotlib, numpy, etc.
3. Linux system and network operations and scripting with Python, Bash, and Perl
4. Dynamic webpage design with **HTML5**, **CSS**, and **Bootstrap 4**
5. Object-oriented software and design, especially with **C++**

honors

2018

Awarded a position on the UAH College of Science 2018 **Dean's List**

2017/2018

2-time Western Kentucky University state-wide **Physics Olympics** champion