

Mitchell T. Dodson

mitchell.t.dodson@nasa.gov
mtd0012@uah.edu
(270)-421-8875

PHYSICS
MATHEMATICS
COMPUTER SCIENCE

602J-3 John Wright Drive
Huntsville, AL 35805

keywords

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

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
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activities and experience

	NASA SPoRT Student Programmer -
2019-Present	<ol style="list-style-type: none">1. Designing dynamic webpages for complete SPoRT website overhaul, including Javascript/JQueryy CGI scripting for real-time data distribution2. Leading incentive to plan and create new paradigm for SPoRT public relations in the form of a locally-hosted blog, allowing research scientists to quickly, easily, and securely publish their work.3. designing and implementing internal and network software in Python, Perl, and C++ for secure big-data transition and storage
2019	NASA SPoRT Student Programmer - Overhauled data analysis and image composition for SPoRT MAG4 solar weather forecasting software
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 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	<ol style="list-style-type: none">1. Python image manipulation and data analysis with matplotlib, numpy, etc.2. Linux system and network operations and scripting with Python, Bash, and Perl3. Dynamic webpage design with HTML5, CSS, and Bootstrap 44. LaTeX for formatting and typesetting documentation and technical information5. Object-oriented software and design, especially with C++

honors

2018	Awarded a position on the UAH College of Science 2018 Dean's List
2018	Awarded Eagle Scout rank with Bronze and Gold palms by Troop 1705
2018	Awarded Charger Excellence scholarship by University of Alabama in Huntsville