Jonathan Martini Resume

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Education	**Bachelor of Science in Mechanical Engineering** **Minor in Aerospace Engineering** **Master of Business Administration** The University of Alabama, Tuscaloosa AL Honors College Cumulative GPA: 3.7	**May 2022** **May 2022** **May 2023**	
Skills and Experience	Python3, C/C++, Matlab, Excel, Solidworks CAD, Windows, Linux/BSD, Microsoft Office Utilities		
Familiar Technologies	Pytorch, Tensorflow, Numpy, Scipy, Scikit-learn, Pandas, Julia, Git, basic machine learning methods		
Technical and Other Experience	**ARA: ARES Avionics Telemetry System:** • Developed a library to transmit, receive, debug and serialize data for the FreeWave Zumlink Z9-C Radio Transmitter. (Python3, Pyserial) • https://github.com/jsmartini/ZumlinkZ9C **ARA: ARES Avionics Hardware Assembly:** • Helped design, debug, and assembly relevant flight hardware prior to the team test flight. (BeagleBone Black, I2C) **ARA: ARES Part Scripting Program for 3D CAD Models:** • Wrote software to take CEA data to auto-generate rocket nozzle CAD models (.STEP) for Solidworks. (Python3, FreeCAD) • https://github.com/jsmartini/AutoRocketEngine-Output **StemPath to MBA: Nasa Innovation Group Project:** • Developed a business plan for a Nasa telemetry patent and was selected as 1 of 24 best teams in the honors program to present to Nasa engineers and administrators. **Personal Project: Web Scraper and Stock Trading Algorithm:** • Scrapes data from various online investment sites and forums and places market orders based on predetermined criteria for asset performance. (praw, alpaca_trade_api, pandas, bs4, selenium, python3) • The algorithm made ~$45 paper trading over the course of an hour.		
Work Experience	**Lowe's Outdoor and Garden Associate** Erlanger, KY May-August 2019 **Montgomery Inn Restaurant** Fort Mitchell, KY June-August 2018 **St. Henry District High School** Erlanger, KY May-July 2017 • Installing new servers for the school network. • Wrote automation scripts and installing software for servers. • Migrated student data to a new database for streamlined insurance claims.		
Campus Involvement	• Alabama Rocketry Association (ARA) • (ARA) Deimos IREC Team Project Manager • (ARA) ARES 2020 Avionics Team Member • (ARA) ARES 2020 Powerhead Team Member • Alpha Delta Phi Brotherhood Chair • Golden Key Honour Society • Alabama Machine Learning Club • ASME Member • AIAA Member • Alabama Club Crew Team	Fall 2019-Present Spring 2020-Present Fall 2019-Spring 2020 Spring 2020 Spring 2020-Present Fall 2019-Present Fall 2018-Present Fall 2018-Present Fall 2018-Present Fall 2018-Spring 2019	