

Jonathan Martini Resume

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| jmartini@crimson.ua.edu | (859)-801-1055 | Linkedin.com/jmartini | Github.com/jmartini |
| 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 Familiar Technologies | Python3, C/C++, Matlab, Excel, Solidworks CAD, Windows, Linux/BSD, Microsoft Office Utilities, Pytorch, Tensorflow, Numpy, Scipy, Scikit-learn, Pandas, Julia, Git/Git Gui, General Machine Learning Technologies and Data Manipulation Techniques. | | |
| Experience | <p>ARA: ARES 2019/Deimos 2020 Avionics Telemetry System:</p> <ul style="list-style-type: none"> Developed a library to debug and automatically transmit, receive, and serialize data for the FreeWave Zumlink Z9-C Radio Transmitter. (Python3, Pyserial) <p>ARA: ARES Avionics 2019-2020 Hardware Assembly:</p> <ul style="list-style-type: none"> Helped design, debug, and assembly relevant flight hardware prior to the team test flight. (BeagleBone Black, I2C) <p>ARA: ARES Part Scripting Program for 3D CAD Models:</p> <ul style="list-style-type: none"> Wrote software to take CEA data to auto-generate rocket nozzle geometry in .STEP files to convert to Solidworks part format. (Python3, FreeCAD) <p>ARA: Deimos Team Project Manager for IREC 2020-2021:</p> <ul style="list-style-type: none"> I am responsible for settings goals, creating development plans and timelines, organizing sub-teams, appointing sub-team leads and making sure the team adheres to IREC competition rules and regulations while staying within our allocated budget. In addition, I contribute to sub-team software and hardware avionics projects. <p>StemPath to MBA: NASA Project:</p> <ul style="list-style-type: none"> Developed a business plan for a NASA telemetry patent and was selected as 1 of 24 best teams in the honors program that presented to NASA engineers and administrators. <p>Personal Projects: Web Scraper and Stock Trading/Screening Algorithms:</p> <ul style="list-style-type: none"> Scrapes data from various online investment sites and forums and places market orders based on predetermined criteria for buy/sell signals. (praw, alpaca_trade_api, pandas, bs4, selenium, python3) Market screener algorithm using custom market signals for the S&P 500. It is configured as a mailing list. My friends have profited from plays found by the screener. (python3, robinhood third-party api, gmail) Social Media Trading Bots (python3, TDA-api, Alpaca-trade-api, Finnhub, bs4, selenium) | | |
| Campus Involvement | <ul style="list-style-type: none"> Alabama Rocketry Association (ARA) (ARA) Deimos IREC Team Project Manager (ARA) ARES 2020 Avionics Team Member (software dev) (ARA) ARES 2020 Powerhead Team Member (software dev) Alpha Delta Phi Brotherhood Chair Golden Key Honour Society Alabama Machine Learning Club ASME Member AIAA Member Alabama Club Crew Team Lacrosse Defensive/Team Captain | | 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-Present Fall 2018-Spring 2019 High School (3 Seasons) |