

Jonathan Martini Resume

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Education **Bachelor of Science in Mechanical Engineering, May 2022**

The University of Alabama, Tuscaloosa, AL

Minor: Aerospace Engineering

Cumulative GPA: 3.667

Master of Business Administration, May 2023

Skills

Python – Proficient	PyTorch – Proficient
C/C++ – Proficient	Pandas – Proficient
MATLAB – Proficient	Tensorflow - Intermediate
Simulink – Proficient	Golang – Intermediate
Solidworks – Proficient	Scipy – Intermediate
Solidworks FEA – Proficeint	Microsoft Azure - Intermediate
Numpy – Proficient	

Experience **ARA: Senior Design/Solid's Team Avionics Telemetry System 2019**

- Developed a program to debug, serialize, transmit and receive data for the Zumlink Z9-C Radio Transmitter.

ARA: Internal Rocket Engine Project- Control Systems Lead Jan 2021 - Present

- Managed a team working on developing the software and hardware control systems to manage tank pressurization, data acquisition, and engine control.

Undergraduate Research Assistant/Independent Study Jan – May 2021

- Artificial Neural Networks and Artificial Intelligence Research
- Deep Q-Learning Reinforcement Learning
- Soft-Decision Trees

Involvement

Alabama Rocketry Association (ARA)	Fall 2019 – Present
(ARA) IREC Competition Project Manager	Spring 2020 – Fall 2020
(ARA) IREC Avionics Integrations Lead	Spring 2021 – Present
(ARA) Liquid Rocket Engine Controls Lead	Spring 2021 – Present
(ARA) Avionics Senior Design Team Member	Fall 2019 – Spring 2020
Alpha Delta Phi Executive Board Member	Spring 2020 – Fall 2020
ASME Member	Fall 2018 – Present
AIAA Member	Fall 2018 – Present
Alabama Club Crew Team	Fall 2018 – Spring 2019
Alabama Machine Learning Club	Fall 2018 – Fall 2019