

Zoe Mullins

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Objective	To obtain an internship working with electronic instrumentation and/or programming for the summer of 2021.	
Education	EMBRY-RIDDLE AERONAUTICAL UNIVERSITY (ERAU) Bachelor of Science, Engineering Physics	Daytona Beach, FL May 2022
	<ul style="list-style-type: none">Concentration in Spacecraft Instrumentation, minors in Computer Science and Applied Mathematics. 3.74 GPA.Student-athlete/Women's LacrosseDean's List student 2019 & 2020Completed courses of Calculus 1, 2, & 3, Scientific Programming in C, Engineering Chemistry, Graphical Communications (CATIA), Space Science, Physics 1, 2 & 3, Digital Circuit Design, and Spaceflight Dynamics, Differential Equations, Microprocessor Systems, Computer Science 2 (Java), and Modern PhysicsCurrent courses: Classical Mechanics, Space Systems Design, Space Systems Engineering, Signals and Systems, Mathematical Methods for Engineers	
Skills	Technologies/Programming <ul style="list-style-type: none">Python and JavaScript (5 years)jQuery, HTML5, Java (4 years)C, C++, MatLab (1 year)Linux OS	<ul style="list-style-type: none">CATIA and AutoCADDigital Logic and Circuit DesignSplunk Fundamentals CertificateMicrosoft Office
Work Experience	Code Ninjas Programming Instructor	San Antonio, TX April 2018-December 2020
	<ul style="list-style-type: none">Teaching students ages 7-15 courses in Python, JavaScript and digital logicAssisting with projects in JavaScript, Lua, HTML and block-coding in a classroom settingDeveloped both Python and Digital Logic curriculum	
	SAF/CDMA Machine Learning/DEVOPS Intern	Tampa, FL/Remote January 2021-May 2021
	<ul style="list-style-type: none">Working with Python ML programs and AI to predict the impact that quantum computing will have on national security threats within the next 5-20 years	
Projects	Designing and Creating Circuits - 2 person team <ul style="list-style-type: none">Made various circuits throughout the semester using Arduino including a traffic light system and a security systemApplied extensive use of logic.ly for designing a multiplexer "Starship" Program in C — Solo project <ul style="list-style-type: none">Use of file.io to create graphs in CWorked with modularizing programsApplied statistical analysis and principles of physics throughout the program Blender Redesign – 3 person team, Team Leader <ul style="list-style-type: none">Used engineering skills, problem-solving and CATIA to improve a Nutribullet blenderUsed CATIA to prove our blade enhancements made the blender more efficient Satellite Python Program – Solo Project <ul style="list-style-type: none">Extensive work in Python libraries such as Matplotlib and Numpy to develop a simulation for satellites travelling and how gravitational pull affects their path of flight	