

Cade Armstrong
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Objective Statement

Aerospace Engineering major seeking an internship with NASA Jet Propulsion Laboratory working on Orbital Mechanics or Control.

Education

University of Texas at Austin

August 2021 - Present

Major: Aerospace Engineering
Minor: Elements of Computing Certificate
Expected Graduation: May 2025
Cumulative GPA: 3.9245

Work Experience

Tutor - University of Texas at Austin

January 2023 - Present

- Assisted and taught fellow UT Austin students in various topics including dynamics and engineering computation problems
- Taught and reinforced academic strategies to assist in the continued success of students

Intern - Armstrong - Douglass Partners

May 2019 - August 2020

- Performed 3-D Building Information Modeling (BIM) of building structures using Autodesk Revit
- Calculated loads on building columns, beams, and foundations
- Updated and maintained company website
- Performed Divi Programming in conjunction with Wordpress
- Created templates for calculating project fees in Microsoft Excel
- Created templates for creating project proposals in Microsoft Word

Academic Experiences

Researcher - Control and Learning for Autonomous Robotics (CLeAR)

April 2023 - Present

- Research project spanned Orbital Mechanics, Estimation, Optimization, and Game Theory
- Developed a deep understanding of key concepts in Orbital Mechanics and Game Theory, contributing to the advancement of research in the field
- Acquired proficiency in Julia to facilitate research and analysis
- Independently conducted an in-depth analysis of source code, comprehensively documenting its functionality and workings
- Implemented strategic updates to the source code, resulting in significant improvements in project efficiency and accuracy
- Identified and resolved critical issues within the code, leading to improved project efficiency

Related Coursework

Spacecraft Dynamics, Feedback Control Systems, Propulsion, Electromechanical Systems, Engineering Computation, Mechanics of Solids

Skills

Python	<i>Proficient</i>	MATLAB	<i>Proficient</i>	Julia	<i>Intermediate</i>
C++	<i>Intermediate</i>	Java	<i>Intermediate</i>	Microsoft Office	<i>Intermediate</i>
Solidworks	<i>Intermediate</i>	Fusion 360	<i>Intermediate</i>	Revit	<i>Basic</i>