

Kevin Morrison

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Seeking career opportunities in high-fidelity simulation design and guidance, navigation, and control systems

Education

Rensselaer Polytechnic Institute	May 2022
<i>Bachelors of Science Magna Cum Laude in Aeronautical Engineering</i>	<i>Troy, NY</i>
<ul style="list-style-type: none">▪ Cumulative GPA: 3.76/4, Dean's List all semesters	

Personal Projects

Space Vehicle Design Capstone	Fall 2021
<ul style="list-style-type: none">▪ Awarded the Stanley I. Weiss Capstone Design Award for the best Multidisciplinary Design Project in the Capstone Design Course▪ Developed a quaternion-based dynamics simulation model for a comet lander probe▪ Designed a PID controller capable of eliminating error after a disturbance six times expected values	
Reinforcement Learning-based Control of a Quadcopter	Winter 2021 – Summer 2021
<ul style="list-style-type: none">▪ Programmed a dynamics simulation environment for a quadcopter in Python▪ Implemented machine learning algorithms for training a quadcopter agent to perform basic maneuvers	
Discord-based Strava bot	Summer 2021 – Present
<ul style="list-style-type: none">▪ Designed an authorization system to securely access user data from the Strava API▪ Incorporated an SQLite database to facilitate data management and manipulation▪ Integrated multiple APIs to create complex interactions accessed through a user-friendly interface	
Boid Implementation	Summer 2021
<ul style="list-style-type: none">▪ Created a visualized boid simulation with variable rule parameters using Python▪ Implemented a quadtree data structure to increase large-scale simulation performance	

Work Experience

Morrison Insurance Group	Summer 2016 – Present
<i>Administrative Assistant</i>	<i>Corpus Christi, TX</i>
<ul style="list-style-type: none">▪ Developed tools to automate data compilation for personalized marketing material▪ Organized customer data to facilitate a move towards a digital database system	

Skills

- Python, MATLAB, Siemens NX, CNC milling and machining, data management, Microsoft Office Suite