

# Kevin Morrison

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

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## Education

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### Rensselaer Polytechnic Institute

May 2022

*Bachelors of Science Magna Cum Laude in Aeronautical Engineering*

*Troy, NY*

- Cumulative GPA: 3.76/4, Dean's List all semesters

## Personal Projects

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### Space Vehicle Design Capstone

Fall 2021

- 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

- 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

- 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

- Created a visualized boid simulation with variable rule parameters using Python
- Implemented a quadtree data structure to increase large-scale simulation performance

## Work Experience

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### Morrison Insurance Group

Summer 2016 – Present

*Administrative Assistant*

*Corpus Christi, TX*

- Developed tools to automate data compilation for personalized marketing material
- Organized customer data to facilitate a move towards a digital database system

## Skills

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