

# Kilian O. Olen

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kilianolen.github.io

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## EDUCATION

### **Embry-Riddle Aeronautical University (ERAU)**

*Bachelor of Science in Aerospace Engineering*

Daytona Beach, Florida

Expected May 2025

- Concentration: Astronautics
- Minor: Computer Aided Design / Computer Aided Manufacturing

*Bachelor of Science in Engineering Physics*

Expected May 2025

- Concentration: Spacecraft Systems
- Minor: Applied Mathematics

### **Broward College**

*Associate of Arts with Highest Honors in Engineering*

Davie, Florida

June 2020

## RESEARCH INTERESTS

Biologically Inspired Robotics  
Field Robotics

Search and Rescue Robotics  
Space Robots and Systems

Legged Robots  
Manipulation

## RESEARCH EXPERIENCE

### **ERAU Space and Atmospheric Instrumentation Laboratory**

*Undergraduate Research Assistant to Dr. Aroh Barjatya*

Daytona Beach, Florida

Feb. 2023 – Present

- Assisted in the assembly of electronic boards and the construction of payloads for upcoming balloon satellite launches, demonstrating skills in soldering and electronic component integration.
- Conducted extensive testing on various thermistors intended for balloon satellite payloads, optimizing their performance to achieve precise altitude-dependent readings, contributing to data accuracy in high-altitude experiments.
- Enhanced the control and monitoring system of a spin table used in testing boom deployment on sounding rockets, introducing improvements that significantly increased system efficiency and data accuracy for critical rocket deployment experiments.

### **Honeywell Aerospace**

*Electrical & Systems Engineering Research Assistant*

Clearwater, Florida

Nov. 2022 – May 2023

- Volunteered to contribute to a collaborative research project, jointly undertaken by Embry-Riddle Aeronautical University and Honeywell Aerospace. The project sought out students with a strong engineering background and electrical expertise, providing an opportunity to apply engineering knowledge to real-world industry challenges.
- Joined a cross-functional team with the intent to design and implement a knowledge-based system for the fault isolation and correction of inertial navigation systems during the production testing phase. This experience demonstrated proficiency in cross-disciplinary collaboration and problem-solving within an industrial context.

## RELEVANT PROFESSIONAL EXPERIENCE

### **NASA John H. Glenn Research Center**

*Graphics and Visualization Lab Intern*

Cleveland, Ohio

Aug. 2023 – Present

- Contribute to the development of concept vehicles within a cutting-edge flight simulator, actively engaging in the creation of related visualizations using virtual reality and augmented reality technologies.
- Visualization efforts include the modeling of both conceptual electric aircraft designs and hardware prototypes.

## **Honeywell Aerospace**

*Electrical & Systems Engineering Intern*

Clearwater, Florida

May 2023 – Aug. 2023

- Expanded upon my involvement in the research program by transitioning to a summer internship position at the Clearwater facility.
- Maintained an integral role in the project following this transition, further refining and optimizing the design and implementation of the knowledge-based system.
- Proactively scheduled and conducted frequent meetings with site engineers and technicians, which provided valuable insights into the intricacies of the manufacturing process and ensured a seamless alignment between the system's functionality and the manufacturing requirements.

## **ERAU Academic Advancement Center**

*Engineering & Engineering Sciences Tutor*

Daytona Beach, Florida

Aug. 2022 – Present

- Provide mentorship and guidance to fellow students, actively assisting them in improving their understanding of fundamental engineering disciplines such as Statics, Dynamics, Solid Mechanics, MATLAB, and Aerospace Vehicles.

## **HONORS & AWARDS**

Dean's List, Embry-Riddle Aeronautical University

(All Terms) Fall 2020 - Present

Diamond Eagle Scholarship, Embry-Riddle Aeronautical University

Fall 2020 - Present

Bright Futures Academic Scholarship, Florida Department of Education

Fall 2020 - Present

Visionary Scholarship, American College Foundation

July 2020

President's List, Broward College

Fall 2018, Fall 2019, Spring 2020

Dean's List, Broward College

Spring 2019

Commended Student, National Merit Scholarship Corporation

Fall 2019

## **SKILLS**

### **Programming & Analysis**

- MATLAB, Python, C/C++, Arduino, Microsoft Excel

### **Design & Simulation**

- CATIA V5, Autodesk Inventor, Fusion 360, Blender, Femap

### **Technical**

- 3D Printing, Soldering, Circuit Design, Rapid Prototyping

### **Languages**

- English (Native), Spanish (Conversational), French (Basic Proficiency)

*References Available Upon Request*