JACK CAIOLA

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Ridgefield, CT

EDUCATION

Bachelor of Science: Mechanical Engineering

Embry Riddle Aeronautical University

Aug 2020 – Present Daytona Beach, FL

Proficient with CATIA, Solidworks, Ansys, Excel, and MATLAB through engineering-specific classes.

Non-Degree

Arrow Aviation

Jun 2016 – Present Danbury, CT

Have flown Cessna Skyhawks and attended Ground School for understanding of regulations.

Non-Degree

Wooster School

Aug 2016 – Jun 2020 Danbury, CT

Honor Roll since Freshman year. All High Honor Roll Junior year.

SELECTED SKILLS

Engineering Tools

CATIA | Solidworks | AutoDesk | Ansys | Excel | Embedded Systems | Ardupilot | Mission Planner

Programming Languages

Rust | MATLAB | Arduino | Python

Design and Prototyping

CAD | 3D Printing | Assembly Line Management

Robotics

ROS 1 Noetic

LINKS

View this resume as a WebAssembly app:
jcaiola.com

View the source code:
https://github.com/jackcaiola/Resume

ABOUT ME

An aspiring Mechanical Engineer with hands-on experience. Passionate about UAV technologies and its further development. Actively engaged in multidisciplinary research opportunities and committed to practical applications of engineering principles.

EXPERIENCE

Undergraduate Researcher

Embry Riddle Aeronautical University

Mar 2023 – Present Daytona Beach, FL

- Aiding in the development of the practical application of thermal energy storage systems.
- Assisting in embedded system design for the capture of weather data.

Intern

TargetArm

Jul 2018 – Sep 2022 Ridgefield, CT

- Manufacturing components using 3D printer technology, managing a small-scale prototype production line, and utilizing CAD software and embedded systems for in-field testing. Developed a mobile autonomous launch and recovery system for UAVs using Rust.

Engineering Physics Propulsion Lab Member (EPPL)

Embry Riddle Aeronautical University

Jan 2024 – Present Daytona Beach, FL

- Aiding in the development of autonomous UAV swarm data collection through CAD Design, Embedded Systems, Mission Planner, Ardupilot, and more.

OpenMutt R&D Member

EPPL

Jan 2024 – Present Daytona Beach, FL

- Developing an open-source quadruped to increase multidisciplinary research opportunities, utilizing Ros 1 Noetic.

Swarm Unmanned Aerial Vehicles using Emergence (SUAVE) R&D Member

EPPL

Jan 2024 – Present Daytona Beach, FL

- Involved in R&D for UAV swarming technologies.