

# Bryce Do

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<https://engineeringportfolio4.godaddysites.com/>



## Objective

Pursuing career opportunities for UAV design and operations

## Education

Embry-Riddle Aeronautical University  
B.S. in Aerospace Engineering  
Dean's List Student  
Class of 2026 Daytona Beach, FL

## Leadership & Skills

### Certifications

- FAA Part 107 (UAV Ops)

### Leadership

- Flight Test Lead for ERAU Design/Build/Fly team (national champs)

### Design

- Solidworks Certified, Onshape, Fusion 360, CATIA, OpenVSP, MATLAB

### Analysis

- NASTRAN FEMAP, SimScale

### Fabrication

- Traditional Knee Mill and Lathe, CNC Mill and Lathe, TIG Welding, Aluminum Brazing, Soldering, Carpentry, Hotwire foam cutting, Laser Cutting, Waterjet Cutting, Additive Manufacturing, Composite Material Fabrication

### Flight Software

- ArduPilot Mission Planner, dRehm Flight, Betaflight, INAV

### Piloting

- Traditional fixed wing RC aircraft, fpv multirotors
- Autonomous UAVs running waypoint missions

## Engineering Experience

### Dynetics

Mechanical Design and Analysis Intern

Huntsville, AL

May 2023-August 2023

- Supported multiple projects for advanced weapons systems critical for national defense

### Total Defense & Resource Strategies

UAV Pilot

Nevada

May 2023

- Flew target UAVs for defense contractor's tests of CUAS systems
- Programmed targets to complete missions for elimination and data collection
- Modified target's structure and aerodynamics to suite requirements for flight profiles

### Embry-Riddle Design/Build/Fly

Flight Test Lead

Daytona Beach, FL

2022-Present

- Responsible for running all wind tunnel, system, and aircraft tests
- First Freshman to design, build, and test in Micaplex wind tunnel
- Designed and built University's first powered wind tunnel model (dynamic thrust test stand)
- Designed retractable landing gear for competition aircraft
- Selected as competition technician to assemble aircraft

### Leonardo DRS Daylight Solutions

Mechanical Engineering Intern

Mountain View, CA

May 2021 – October 2021

- Designed and manufactured tool to make high pressure seals for lasers while performing field repairs
- Operated knee mill and lathes to manufacture high tolerance parts
- Learned how to properly format drawings and communicate with machinists to fabricate the desired part

### University of California Irvine

Mechanical Engineering Intern

Irvine, CA

May 2019-November 2019

- Constructed fixture to evaluate durability of ceramic coatings for metal in simulated environments for naval turbine engines
- Learned the importance to run tests before real world application

## Personal Projects

### Micro Air Vehicle (MAV)

May 2023 - Present

- Make a MAV (fits in a 6x6x6in cube)
- Capable of flying for 20 minutes and a mile away by itself
- Learning a lot about light weight airframe construction

### Sub-100 Gram Autonomous Aircraft

September 2021 - Present

- Personal challenge to develop an aircraft from scratch weighing less than 100 grams that flies at least an hour and 15 miles of range
- Performed propulsion system calculations and CFD to design flying wing and plank aircraft for maximum efficiency
- Designed whole airframe from scratch along with construction jigs for more precise tolerances
- Currently working on a tailless plank configuration for more battery capacity and less drag
- Resulted in more knowledge about aircraft design with CFD and testing to back it up