

# Wyatt Kacmarynski

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## Education

### Iowa State University

Bachelor of Science in Aerospace Engineering  
Graduated Cum Laude with 3.56 GPA

Dec 2024

## Projects

### UAV Optimization

Jan 2024 – May 2024

- Led the development of a Python-based optimization to minimize a UAV's drag and radar signature
- Reduced drag by 15% through iterative geometry adjustments using an automated loop
- Ensured a feasible UAV design by integrating structural, aerodynamic, and stability constraints

### UAV Design (Senior Design)

Aug 2023 – May 2024

- Led the design and integration of mechanical and control systems for a UAV, securing second place in competition
- Reduced part weight by over 60% by redesigning components using SolidWorks and 3D Printing
- Designed and validated UAV control systems using MATLAB and STAR-CCM+ to create a stable and controllable aircraft
- Fabricated and tested UAV components to verify compliance with design and flight performance requirements

### Cyclone Rocketry (Club)

Aug 2023 – Dec 2024

- Engineered and constructed a dual-deployment high-power rocket, meeting Level 2 (L2) Certification standards
- Fabricated avionics sleds using SolidWorks and 3D printing, enabling data collection for rocket performance analysis

## Experience

### 3D Printing and Design Club

Nov 2021 – Nov 2024

President

- Led a 30+ member club, mentoring in CAD and additive manufacturing, boosting member retention by 30%
- Developed an officer transition system to ensure smooth knowledge transfer and continuity of club operations
- Managed a \$5,000 budget and secured sponsorships for advanced materials and equipment to expand club capabilities

### Target

May 2024 – Sept 2024

Seasonal General Merchandise

- Collaborated with a team to ensure a seamless shopping experience, resolving customer inquiries and issues efficiently

### Kacman Aerial LLC

July 2018 – Aug 2023

President and Remote PIC

- Conducted UAV surveys in disaster-stricken areas, improving damage assessment speed by over 50%
- Managed UAV fleet operation and maintenance, ensuring FAA Part 107 compliance and a 100% mission success rate

### Barr Bike and Fitness

June 2018 – Dec 2022

Bike Mechanic and Sales

- Diagnosed and repaired bicycle systems, reducing repair turnaround time by 30% through efficient troubleshooting
- Advised customers on bike selection, maintenance, and repairs, improving satisfaction and repeat business

## Certifications

- Private Pilot License (Single Engine Land)
- FAA Part 107 (Commercial Remote Pilot Certificate)

## Skills

**Design** SolidWorks, Top-Down Modeling, Fusion 360, KiCad

**Languages** MATLAB, Python, C, C++, Git, Java

**Manufacturing** 3D Printing (FDM, SLA), CNC Machining

**Test Equipment** Oscilloscope, Vector Network Analyzer, Digital Multimeter, Signal Generator

**Software** Linux, MS Office (Excel, Word, PowerPoint)