



# Wyatt Kacmarynski

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## Education

### Iowa State University

Dec 2024

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

## 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, earning 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 ensure they met all design requirements

### Cyclone Rocketry (Club)

Aug 2023 – Dec 2024

- Designed and built a dual-deployment rocket for L2 Certification
- Manufactured avionics sleds using SolidWorks and 3D Printing to ensure successful flight data collection

## Experience

### 3D Printing and Design Club

Nov 2021 – Nov 2024

President

- Led a 30+ member club, mentoring in CAD and additive manufacturing to boost engagement and skill development
- 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, assisting guests with inquiries and purchases

### Kacman Aerial LLC

July 2018 – Aug 2023

President and Remote PIC

- Conducted UAV surveys, enabling assessments of inaccessible areas to expedite disaster recovery
- Managed UAV operations 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

- Advised customers on bike selection, maintenance, and repairs, improving satisfaction and repeat business
- Diagnosed and repaired bicycle systems by troubleshooting issues and clearly communicating solutions to customers

## Certifications

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

## Skills

**Design** SolidWorks, Top-Down Modeling, Fusion 360, KiCad  
**Manufacturing** 3D Printing (FDM, SLA), CNC Machining  
**Languages** MATLAB, Python, C, C++, Git, Java  
**Software** Linux, MS Office (Excel, Word, PowerPoint)