

MICHAEL ZIELINSKI

Eagle Scout, Mechanical Engineering BS, Minor in Aerospace Studies

3.72 GPA - Graduating Spring 2025

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Professional/Group Experience

Boeing-Sponsored Drone Senior Capstone Project

- Design a heavy-lift capable drone with in-flight interchangeable payloads
- Must lift a camera, a weighted payload of >30% of the empty weight, and a 3D printed cruise missile
- Work with a team of 5 students and client to meet design/manufacturing milestones and objectives
- Practice practical engineering skills beyond the classroom (heat transfer, dynamics, finance)
- Utilize FDM printing for prototype and final custom frame and missile parts

Silver Wings National Frontier President

- Start chapters at universities across the nation
- Work with other National staff members to ensure the successful future of the organization
- Maintain continuity records for the next Frontier President

Society of Hispanic Professional Engineers - NAU

- Serve as Treasurer to enable club to attend conferences and job fairs at minimum cost
- Spread the word about the benefits of diversity in the workplace
- Celebrate and learn about the Hispanic culture

2023 & 2025 National Conclave Staff, Silver Wings & Arnold Air Society

- Plan, coordinate, and host a National Conclave for over 1000 people with a team of motivated individuals
- 2023 position was Finance Manager - create and maintain \$300k budget for event
- 2025 position was Information Manager - maintain registration form, resolve registration issues, create rooming lists

Capstone Preparation Group Project Course

- Design a suspension attachment for aircraft to improve objectivity of in-flight feedback
- Practice project and team management skills
- Maintain communication throughout engineering design process with both team and client

Salt River Project/NAU Undergrad Research Assistant

- Apply for undergraduate grant funding
- Model dronar system in Solidworks CAD
- Assist in writing academic/engineering report on effectiveness of dronar applications
- Construct a custom wiring harness for the drone

Job Experience

NAU College of Engineering (CEIAS) Capstone Coordinator (April 2023 - May 2024)

- Maintain University Purchase Card
- Purchase and track capstone items/budgets
- Proficient in Microsoft Office/Excel

NAU Peer Jacks (Aug 2022 - May 2023)

- Assist freshmen with the adjustment to college life
- Keep Salesforce records of student interactions
- Maintain "professional friendships" and understand personal boundaries
- Maintain Microsoft 365 account (Outlook, Teams)

USFS Forestry Aid (Fire) (May 2023 - Aug 2023)

- Perform the duties of a wildland firefighter
- Practice good interpersonal skills with crew
- Maintain situational awareness in hazardous environments

BLM Wildland Firefighter (Helitack) (May 2024 - Aug 2024)

- Maintain situational awareness around a variety of aircraft
- Work in a team of up to five firefighters in a physically and mentally intense work environment

Achievements/Skills

Ira C. Eaker Award - Civil Air Patrol (May 2021)

- Leadership theory and practice

Eagle Scout (May 2016)

- Project management

CEIAS Dean's List - Northern Arizona University (12/2021, 5/2022, 12/2022, 5/2023, 12/2023, 12/2024)

Private Pilot's License (July 2020)

- Multitasking in a safety-conscious environment