

Markus Steinebrunner

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SUMMARY

Motivated third-year Mechanical Engineering student with hands-on experience at Thales Avionics, optimizing production output and leading quality control projects. Proficient in SolidWorks, resource optimization, and budgeting, with strong multitasking and time management abilities. Known for being team-oriented, loyal, and supportive, with a proven ability to multitask effectively while balancing multiple part-time roles during studies. Seeking an internship to apply technical skills and contribute to innovative projects.

EDUCATION

Northern Arizona University — *Bachelor of Science in Mechanical Engineering*

Expected Graduation: December 2025

Honors/Rewards: Dean's list/ Presidential Scholarship

Relevant Coursework: MATLAB, SolidWorks, Machine Design II, Thermodynamics, Fluid Mechanics, Mechanics of Materials

Activities: Theta Tau Professional Engineering Fraternity

Los Amigos High School

September 2017 – June 2021

Awards: Award for Scientific Achievement (May 2021), Varsity Water Polo - Defensive MVP

WORK EXPERIENCE

Thales Avionics — *Content Integrator*

June 2024 – August 2024

- Supported the Content Operations team to optimize monthly production output, contributing to a department generating \$20M annually.
- Led quality control projects, ensuring digital files adhered to system specifications.
- Communicated key issues to stakeholders while advancing files through stages of software testing.
- Tested the functionality of digital files within company-developed software to enhance passenger experiences on international flights.
- Promoted to the transition team for Content Management Systems after one month, coordinating and ensuring metadata accuracy.
- Recognized by supervisors as a self-starter, capable of working under pressure and in team-oriented settings.

Restoration Forest Products — *General Laborer*

June 2023– August 2023

- Collaborated with a team of 12 to process 1,000 logs daily, producing approximately 22,000 board feet of lumber for further processing and shipment.
- Managed the loading of cut lumber onto carts for kiln drying and stacked dried lumber for customer shipments, ensuring efficient workflow and timely deliveries.

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FedEx — *Package Handler*

April 2023 – June 2024

- Scanned and loaded approximately 500 packages into appropriate work areas.
- Collaborated with a team of 3-5 to unload, scan, and label between 3,000 to 6,000 packages per day.

Boy Scouts of America — *Inventory Management*

July 2022 – August 2022

- Managed the receiving and proper storage of \$6,000 worth of supplies four times per week.
- Assisted in preparing approximately 6,500 meals per week.

Red Lobster — *Food Preparation Specialist*

August 2021 – January 2022

- Coordinated food production to serve 300-500 guests per day, improving efficiency by 10%.
 - Ensured compliance with Arizona food safety regulations.
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PROJECT EXPERIENCE

Differential Gearbox Design (NAU, Fall 2024)

- Designing a simplified differential gearbox with straight bevel gears for load management.
- Conducted analysis on shaft support to handle radial and thrust loads with a focus on achieving project goals under allowable shear stress parameters.
- Conducted analysis on bearing to select the proper bearing to support the requirements.

VTOL Drone Redesign (NAU, Fall 2024)

- Designed a vertical take-off and landing (VTOL) drone with a focus on optimizing stability and flight control.
 - Conducted weight and propeller analysis to achieve a final weight of 75 lbs with 26x12 propellers and a 3.5-meter wingspan.
 - Selected materials and components to enhance load capacity and maintain structural integrity during vertical and horizontal flight.
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ADDITIONAL INFORMATION

Eagle Scout — *Boy Scouts of America*

Awarded: August 3, 2021

- Designed and built 160 cubic feet of custom cabinets.
- Budgeted and managed \$1,250 in grants and donations.
- Led a team of 5-12 people, completing over 325 man-hours of work.

Certifications:

- NAU Machine Shop Safety Certified
- NAU Machine Shop Vertical Mill Certified