

Mateusz Wiggins

Mechanical Engineering Intern

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SUMMARY

Current Mechanical Engineering student eager to contribute to aerospace development and collaborate in a challenging environment. Engaged in multiple projects focusing on spacecraft hardware, demonstrated ability in SolidWorks for CAD modeling and engineering documentation. Understood design requirements across disciplines, translating them into practical solutions through teamwork and collaboration. Developed prototypes, managed testing of mechanical hardware, and presented technical findings effectively. This role offers the opportunity to apply skills while learning from experts, making concrete contributions to impactful projects within Xona Dynamics.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of California, San Francisco 🎓 GPA: 3.8 📅 2028 📍 San Francisco, CA

Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Aerospace Structures

TECHNICAL SKILLS

- **Design Software:** SolidWorks, AutoCAD, CATIA
- **Analysis Tools:** MATLAB, ANSYS, Python
- **Mechanical Systems:** Actuators, Sensors, Hydraulic Systems
- **Testing Methodologies:** Stress Testing, Performance Testing, Failure Analysis
- **Documentation Standards:** ASME Standards, ISO 9001, NASA Guidelines
- **Certification Programs:** SolidWorks Certified Associate, Robotics Fundamentals
- **Communication Technologies:** Microsoft Teams, Slack, Zoom
- **Frameworks:** Agile, Waterfall
- **Vendor Management:** Supplier Relations, Quality Assurance, Procurement Practices
- **Manufacturing Processes:** 3D Printing, CNC Machining, Injection Molding

SKILLS

- SolidWorks
- CAD Modeling
- Engineering Analysis
- Prototyping
- Technical Documentation
- Team Collaboration
- Project Management
- Performance Evaluation
- Problem Solving
- Communications Skills
- Mechanical Design
- Research Techniques
- Aerospace Engineering
- Data Analysis
- Materials Science

EXPERIENCE

Mechanical Engineering Intern

University Project 📅 June 2025 - Present 📍 San Francisco, CA

Served as a Mechanical Engineering Intern, driving project phases from concept to execution with hands-on experience in space-related hardware.

- Developed a prototype for a miniature satellite, leading design using SolidWorks for CAD models.
- Collaborated with team members to analyze impact and implement strategic engineering changes for improved performance.
- Managed vendor relationships by procuring components, ensuring alignment with quality standards and timely project delivery.
- Conducted tests to assess functionality, improving module's operational parameters significantly based on data analysis.
- Assembled and tested the satellite module, successfully integrating various mechanical systems to achieve specifications.
- Presented innovative design challenges and findings at university showcases, gaining valuable feedback.

Research Assistant

Academic Research 📅 January 2025 - May 2025 📍 San Francisco, CA

Acted as a Research Assistant focusing on advanced materials in aerospace applications, contributing to analytical experiments and publications.

- Assisted in evaluating material durability under simulated conditions relevant to aerospace demands.
- Contributed to experimental design that led to published findings, enhancing material selection processes.
- Utilized statistical software for data analysis, supporting research conclusions and optimizing understanding.
- Created comprehensive reports detailing methodologies to facilitate communication with faculty guides.
- Supported lab setup ensuring functional equipment for experiments, promoting collaborative research efforts.
- Engaged with peers to discuss research impacts on real-world aerospace projects, promoting cross-disciplinary ideas.

Capstone Project 📅 September 2024 - December 2024 📍 San Francisco, CA

Led a capstone initiative focused on environmental monitoring drones, orchestrating cooperation among multi-discipline students and resources.

- Coordinated project plans by defining clear roles, timelines, and expectations for all participants.
- Employed hands-on fabrication techniques alongside CAD designs, creating viable prototypes effectively.
- Conducted extensive field tests, iteratively improving drone design based on analytical feedback.
- Showcased final project outputs to industry experts, receiving commendations for original design and seamless execution.
- Crafted technical documentation capturing insightful design choices, strengthening outreach for publication.
- Collaborated with faculty to publish results in academic outlets, sharing extensive findings to broaden knowledge base.

LEADERSHIP & AWARDS

- Dean's List, Academic Year 2025-2026
- First Place, University Robotics Competition, 2025

CERTIFICATIONS

- CAD Software Certification (SolidWorks) 📅 2023
- Robotics Fundamentals (Coursera) 📅 2023

PROFESSIONAL AFFILIATIONS

- President, Engineering Student Association, 2025-Present
- Member, Aerospace Engineering Club, 2024-Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST