

Rebekah Chun

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EDUCATION

University of Florida

Bachelor of Science in Mechanical Engineering

- GPA: 3.78/4.00

Gainesville, FL

Aug. 2024 – May 2028

EXPERIENCE

Mechanical Engineering Intern | NAVAIR

June 2026 – August 2026

NASJAX — AAE/ARS FST

Jacksonville, FL

- Inspected aircraft components for corrosion and damage and supported repairs to restore serviceability.
- Collaborated with senior engineers and repair shops to support process improvements for aerial refueling and aircraft component overhaul operations.
- Revised and reviewed technical publications and updated engineering drawings to maintain compliance with current standards, instructions, and processes.
- Conducted functional testing, failure-mode analysis, and performance benchmarking to investigate degradation and identify potential root causes.

Undergraduate Research Assistant | iMED

February 2026 – Present

University of Florida

Gainesville, FL

- Integrated Raspberry Pi-based sensors and imaging hardware into a BioX 3D bioprinter to monitor cell viability in real time while accounting for existing mechanical and sterility constraints.
- Designed and modeled sensor housings using SolidWorks, progressing concepts from CAD models to physical prototypes.
- Developed Python-based software and hardware prototypes to enable a real-time cell-viability feedback loop designed to reduce cell death during bioprinting.

Undergraduate Research Assistant | Soft Tissue Mechanics

December 2024 – May 2026

University of Florida

Gainesville, FL

- Investigated biological soft-tissue behavior and drug delivery pathways to support biomedical engineering research.
- Utilized ITK-SNAP and image segmentation techniques to analyze biomedical imaging data and evaluate drug delivery pathways.
- Collaborated with a multidisciplinary research team to interpret findings and develop conclusions from experimental data.

Student Assistant | UF EDGE

August 2025 – Present

University of Florida

Gainesville, FL

- Recorded and produced graduate-level lectures, operating camera and audio equipment to deliver high-quality educational content for faculty and students.
- Improved viewer experience by optimizing audio levels and camera angles, resulting in positive feedback from remote graduate students.
- Catered recordings to each professor's needs and provided assistance with technology support, resolving issues with microphones, cameras, and recording equipment.

LEADERSHIP

Technical Affairs Committee Director | Freshman Leadership Engineering Group

May 2025 – May 2026

- Fostered a culture of accountability and teamwork as a director of a committee of 8 underclassmen to produce high-quality technical workshops within the College of Engineering.
- Executed 3 events per semester, each with 30+ attendees, assisting the committee in planning, delegation, and timeline management.
- Communicated with the executive board of the organization to finalize logistics of room bookings, and purchasing materials.

TECHNICAL SKILLS

CAD & Design: Solidworks CSWA Certification, Autodesk Inventor Proficiency, Design for Manufacturing

Analysis & Research: Data Analysis, Image Segmentation, Image Processing, Failure-Mode Analysis

Hardware & Software: Raspberry Pi, Arduino, Python, MatLab