

Evan Mullins

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EDUCATION

Bachelor of Science in Materials Science and Engineering

University of Florida, Gainesville, FL

Spring 2029

GPA: 4.00/4.00

- Relevant Coursework: Sophomore Materials Lab, Fundamental Principles of Materials, Error Analysis & Optimization in Materials Research, Engineering Mechanics: Statics
- Dean's List (Fall 2025)

EXPERIENCE

IREC Composites Team Engineer – *Swamp Launch, University of Florida*

August 2025-Present

- Performed wet layup of carbon fiber SRAD components (airframes, fins, couplers) applying FOD inspection and 60:40 fiber-resin ratio control to reduce structural defects while maintaining MSDS compliance.
- Researched honeycomb layup methods to improve fin performance and structural reliability for 10,000 ft launches.
- Rebooted student-designed fiberglass filament winder by repairing defunct Python software to automate helical wind G-code generation for GRBL-controlled stepper motors.
- Adjusted codebase and documentation to support Tkinter-based GUI to reduce operator uncertainty.

PROJECTS

Flux Cup, Disposable Cup Redesign – EMA 3000L (Sophomore Lab)

February 2026

- Developed PET-based Solo Cup competitor emphasizing sustainability and motor control, designing a spout for controlled pouring by athletes and individuals with limited motor stability.
- Validated geometric interference and stackability in Fusion 360; created Blender renderings and fluid simulations for class presentation.

Swamp Sense – NASA EMERGE Data Hackathon

January 2026

- Intermediate Track Winner.
- Developed an interactive Folium map integrating GLOBE satellite data assessing mean monthly rainfall and mosquito habitat density to account for NDWI-based coverage gaps of breeding risk in high-precipitation regions.
- Automated CSV cleaning and visualization of FSU rainfall records across 60 Florida counties (2018–2025).

Canvas Pets – Swamphacks XI

January 2026

- Built Chrome extension with FastAPI to promote interactive elementary education using time-based incentives.
- Designed 200+ custom pet sprites with animations to pair backend logic with child-friendly UX.
- Utilized version control and modularity principles to refactor Python framework for future development.

INVOLVEMENT

Outreach Ambassador – *Freshman Leadership Engineering Group, University of Florida*

September 2025-Present

- Led “Pack it Pink” fundraiser for breast cancer patients, generating \$2,613 in 12 days (program record); organized monthly service projects as 1 of 50 freshmen selected from 800 applicants.

Yoro Honduras Site Volunteer – *San Yves Centro de Nutrición, Nutrifund*

January 2025

- Supported a center of 18 malnourished children, coordinated meals and activities, tutored and improved scores for math and reading, and assisted local families with maintenance and landscaping.

SKILLS

Programming Languages: Python, MATLAB, HTML/CSS, JavaScript

Software & Tools: Fusion 360, Blender, Jupyter Notebooks, ImageJ, OpenSim, Git, Adobe Creative Suite

ADDITIONAL INFORMATION

- **Societies:** Material Advantage, SASE
- **Honors:** Jesuit Schools Network Ignatian Global Scholar, AP Scholar with Distinction, Spanish Seal of Biliteracy
- **Hobbies:** Jazz Saxophone, Documentary Filmmaking, Photography, Traveling, Language Learning