Jack Le Towt

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EDUCATION

University of Miami **Coral Gables, FL**
Bachelor of Mechanical Engineering Expected Spring 2028

- **GPA:** 3.507
- **Honors:** Foote Fellow Honors College; Provost's Honor Roll

WORK & LEADERSHIP EXPERIENCE

Theta Tau Engineering Fraternity
Founding President Sep 2025 - Present

- Lead efforts to establish a Theta Tau chapter at the University of Miami.
- Coordinate with national representatives and university officials on founding requirements.
- Host events that strengthen community throughout the College of Engineering.

Kurz Instruments
Mechanical Engineering Intern Jun 2026 - Aug 2026

- Designed mechanical housings for industrial flow measurement instruments using CAD.
- Supported prototyping and manufacturing through laser engraving, 3D printing, and fabrication.
- Created SOLIDWORKS drawings to ANSI standards for complex components and structures.

Ducker Construction
Project Engineering Intern Summers 2025 & 2026

- Performed site measurements and lot staking for 4 residential projects, 2,000+ sq. ft.
- Assisted kitchen and bathroom design and layout; supported planning and on-site coordination.

PROJECTS

Blue Currents Design Competition **Sep 2026 - Present**

- Develop concept sketches and CAD models for a mobile solar array and water purification in remote areas.
- Compare design and material options through cost-benefit analysis.

University Research **Sep 2025 - Jan 2026**

- Worked with PhD students and faculty on polyimide-derived carbon molecular sieve membranes for gas separations at the Frost Center for Chemistry and Molecular Science.
- Developed understanding of experimental testing, research techniques, and statistical analysis in materials development.

SKILLS, ACTIVITIES & INTERESTS

Software: MATLAB; SOLIDWORKS; Fusion 360; Arduino IDE; LightBurn; Excel; Claude Code
3D Printing: Model preparation, printer operation, material selection, and troubleshooting to produce finished parts.
Activities: Kappa Sigma founding class and Assistant Grand Master of Ceremonies (Jan 2024 - Present); veteran-focused philanthropy and fundraising, beach cleanups, and community service.