

Martin Fernandez-Stoll

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PROFESSIONAL SUMMARY

Aerospace engineering student seeking a satellite integration or space systems internship. Hands-on experience with CubeSat assembly, payload packaging, CAD, system testing, and technical team leadership.

EDUCATION

University of Central Florida

Bachelor of Science in Aerospace Engineering | GPA: 3.629

Expected Spring 2028

ENGINEERING PROJECTS

KLEO (Knights in Low Earth Orbit) | Knights Satellite Club

Aug 2026 – Present

Integration Lead — Orbital CubeSat in Development

- Disassembled a PROVES Kit V3 engineering unit to structural panels and flight boards; organized internal cables and moved bracket mounts down one level to provide 29 mm total spacing between the flight and battery boards.
- Guided integration and structures team members through disassembly and reassembly to build familiarity with component placement, board interfaces, and internal wiring.
- Developing an assembly guide informed by team build walkthroughs, documenting assembly sequence, available board connections, and internal wire routing for future members.

KAOS 2 | Knights Satellite Club

Jun 2026 – Present

Mechanical Team Lead

- Lead design, fabrication, and integration of a 4U CubeSat-format enclosure for a balloon mission, addressing thermal and RF interference issues identified during KAOS 1.
- Integrated 3 PCBs, 2 cameras, a GPS receiver, and custom antenna hardware into the mechanical assembly; mentor members in electronics mounting and support system verification.

Tethered-Sat 2A | Knights Satellite Club

Aug 2025 – Mar 2026

Mechanical Team Lead

- Led a 5-member team through design, fabrication, and integration of a 2U enclosure, self-removing lid, parachute-deployment mechanism, and ground-support equipment.
- Documented mechanical requirements and mass, volume, and component budgets; maintained CAD configuration control in Onshape.
- Conducted end-to-end testing, including a 450-ft tethered flight; traced a parachute-deployment failure to retained 3D-printing support through post-flight root-cause analysis.

ACTIVITIES & LEADERSHIP

Knights Satellite Club (KSC)

May 2026 – Present

Treasurer

- Audited fragmented financial records and implemented a centralized Excel budget for 5 engineering projects plus events and PR, consolidating transactions and tracking project spending, funding sources, and available balances.
- Helped secure approximately \$4,000 in funding and managed approximately \$4,500 in travel grants; currently oversee \$3,200 in active Florida Space Grant Consortium (FSGC) project grants.
- Led incorporation of Knights Satellite Club Inc. to support KLEO: prepared and filed documents, coordinated founding directors, obtained an EIN, and completed tax forms.
- Secured FreeFlyer software licenses, training support, and a guest speaker; established industry contacts and initiated discussions on future launch opportunities.

CERTIFICATIONS

SOLIDWORKS CAD Design Professional | MATLAB Onramp

SKILLS

Engineering: Hardware Integration, Mechanical Design, Assembly Documentation, System Testing, Failure Analysis

CAD & Analysis: SOLIDWORKS, SOLIDWORKS Simulation, Onshape

Programming & Tools: MATLAB, Python, C, C++, Java, Microsoft Excel