

EVAN FARNAN

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EDUCATION

B.S., Mechanical Engineering | *University of Florida* | *Gainesville, FL*

August 2024 – May 2028

UF Honors Program | AI Fundamentals Certificate | International Scholars Program

GPA: 4.0

EXPERIENCE

CaptiveAire Systems, Inc.

Tampa, FL

Sales Engineering Intern

May 2026 – Present

- Diagnosed 100+ equipment faults through root cause analysis in CASLink remote analytics, coordinating 30 field service visits and performing an onsite airflow balance to address a customer's dehumidification problem
- Supported engineering and service across rooftop units and DOAS/MUA systems, covering refrigeration cycles, airflow, controls, sensors, coil configuration, and ductwork, and evaluated 8 competitors on a weighted spec matrix
- Configured Paragon DOAS unit selections against ISO 14644 cleanroom classifications, matching airflow, filtration, pressure gradient standards, and dehumidification capacity to 6 target applications

Gator Theme Park Engineering & Design

Gainesville, FL

Ride Development Mechanical Lead

August 2026 – Present

- Leading mechanical development of a robotic-arm for a KUKA-inspired ride prototype toward a proof of concept with 2–3 functional ride vehicles, integrating vehicle, arm, show effects, and safety systems
- Working with subteam leads to set technical requirements, subsystem scope, schedule, and to coordinate BOM development and procurement across multidisciplinary teams while adhering to a \$1,200 budget
- Driving formal DR1 and DR2 preparing design reviews for presentation to Universal Creative, verifying subsystem compatibility, safety, and integration

Ride Development & Motion Simulator Engineer

January 2025 – May 2026

- Designed the drop track for a game-day themed suspended dark ride, down-selecting from 3 drive configurations to a servo-controlled cable hoist sized to car loading and speed targets at a calculated 3x factor of safety (FS)
- Modeled 15+ ride components in SolidWorks and drove component selection for manufacturing to cut costs by 10%
- Designed the support frame for a 3-DOF motion simulator in SolidWorks, calculating torque to size linear actuators to a 250-lb payload, contributing turntable platform iterations, and building a functioning prototype under \$1,750

Swamp Launch Rocket Team

Gainesville, FL

Payload Mechanics Engineer

August 2025 – May 2026

- Designed and machined components for a CubeSat payload testing microorganism gene expression under launch conditions for the Intercollegiate Rocket Engineering Competition, with ± 0.005 in tolerances on a manual mill
- Integrated actuator-driven nutrient delivery with pressure and climate regulation over 10 revisions on Fusion 360 to sustain sample viability with a negative pressure differential through 5 g launch loads

TECHNICAL PROJECTS

Air-Engine-Powered Kitchen Slicer

August 2025 – December 2025

- Designed and manufactured a pneumatic-engine-driven kitchen slicer under a \$100 budget, producing engineering drawings and CAD models of custom parts and machining functional components through 3 technical design reviews

Blind Spot Monitor

January 2025 – April 2025

- Prototyped a truck blind-spot monitoring system through human-centered design, integrating 3D-modeled housings, circuits, sensors, actuators, and Arduino controls to achieve 100% detection accuracy in final testing

HONORS & LEADERSHIP

International Engineering Ambassador | Phi Kappa Phi Honor Society | URSP Honors Research Stipend Award | National Merit Scholar | Benacquisto Scholarship | Tribune Scholar | Fred Gebhardt Leadership Award | President's Honor Roll

SKILLS & CERTIFICATIONS

Software: MATLAB, SolidWorks (CSWA Certified), Fusion 360, AutoCAD, Revit, Python, Arduino IDE, Salesforce

Technical: Engineering Analysis (Statics, Stress, Factor of Safety), Design for Manufacturability (DFM), GD&T, Machining (Manual Mill, Lathe), Welding, Soldering, CNC G-Code, 3D Printing, Root Cause Analysis, Control Systems, Numerical Methods, HVAC Systems, Psychrometrics, OSHA 10