

JOHN DOE

Mechanical Engineering Student

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EDUCATION

University of Florida

Expected May 2027

B.S. Mechanical Engineering - GPA 3.78/4.00

Gainesville, FL

Relevant coursework: Dynamics, Aerodynamics, System Dynamics and Controls, Numerical Methods, Thermodynamics

EXPERIENCE

Controls Research Assistant

UF Nonlinear Controls and Robotics Lab | Aug 2025 - Present

- Built repeatable data pipelines for mobile robot experiments using Python, ROS 2, and embedded telemetry.
- Automated post-flight analysis, reducing review time by 40 percent and improving test-to-test traceability.

Mechanical Engineering Intern

Sunstate Motion | May 2025 - Aug 2025

- Created test fixtures, updated CAD, and supported verification testing for electromechanical actuators.
- Maintained requirement traceability and presented test-readiness evidence at two internal design reviews.

Telemetry Lead

Gator Motorsports | Sep 2024 - Present

- Own sensor selection, wiring documentation, and post-run analysis for the student racecar.

SELECTED PROJECTS

Solar Car Telemetry Dashboard

Embedded Systems / CAN / Python

Built a live dashboard that turns vehicle data into readable driver alerts, pit strategy, and post-run analysis.

Autonomous Drone Landing

Controls / Vision / ROS 2

Created a vision and control pipeline for detecting a moving landing pad and commanding a stable final approach.

Composite Beam Study

Structures / FEA / Test

Compared composite layups using finite element analysis and physical tests, reducing predicted mass by 18 percent.

TECHNICAL SKILLS

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|-----------------|--|
| Analysis | Python, MATLAB/Simulink, NumPy, data acquisition, uncertainty analysis |
| Design | SolidWorks, GD&T, ANSYS, rapid prototyping, composite structures |
| Systems | C++, ROS 2, Git, CAN bus, embedded telemetry, verification planning, technical writing |