Sean Sims

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Education

University of Florida

Herbert Wertheim College of Engineering Dean's List Mechanical Engineering track Expected graduation: May 2026

Current Cumulative UF GPA: 3.73

Coursework: Statistics 1; Intro Biomolecular Engineering; Calculus 1, 2, 3; Physics with Calculus 1, 2; Chemistry 1, 2; Professional Communication for Engineers; Elements of Electrical Engineering; Computer Aided Graphics; Programming for Engineers; Differential Equations; Statics; Materials; Thermodynamics

Clubs and Organizations: Rock Climbing Club, InnoGators Design Team, Club Tennis, Outdoor Adventure Recreation

Community Service obtained: 100 hours

Gainesville High School - Graduated May, 2022

Dual Enrolled at Santa Fe College



Activities and Experience

Volunteering, Sandhill Thoroughbred Rescue

Caretaker for retired racehorses and cows. Feeding, cleaning, assessing and reporting any injuries.

Engineering internship, Matrix Seating USA

- · Assisted with on-site fittings, material processing, hardware design, and the manufacturing of custom molded seating systems.
- Assisted engineering team with 3D printer research and development, assembly, and optimization utilizing SolidWorks, Autodesk Meshmixer, PrucaSlicer, and finite element analysis.

Research, UF Nanostructured Energy Systems Lab

- Assisting a team with postdoctoral research.
- Tuning ionic liquids for CO2 and absorption utilizing the COSMO-RS (COnductor like Screening MOdel for Real Solvents) method, with the goal of making carbon capture machines more effective.
- Testing novel ionic liquid and water mixtures via a custom designed heat exchanger for temperature change induced phase separation to improve machines involving water absorption, such as dehumidifiers.

(P) Skills

- Dedicated to learning and am a fast learner
- Motivated to make a positive difference
- Problem solving under pressure

- Proficiency in spoken and written Mandarin Chinese (5 years of knowledge)
- Certified in SolidWorks and proficient in **MATLAB**

May 2020 – Dec 2021

May 2023 – Aug 2023

Mar 2023 – present