
Jon Fueston

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SKILLS

CAD: CATIA v5, Autodesk Inventor

Analysis & Programming: MATLAB

Manufacturing: Composite layout, FDM 3D printing

Mechanical Systems: Electric drivetrains, suspension, braking

Project Tools: Jira, Trello, Microsoft Office

Professional: Technical communication, team collaboration

Engineering: Data collection, system validation and troubleshooting

EDUCATION

Embry-Riddle Aeronautical University Honors College

Expected May 2027

Bachelor of Science, Aerospace Engineering

Daytona Beach, Florida

Area of Concentration: Rocket Propulsion

Relevant Coursework: Aerodynamics, Space Mechanics, Spacecraft Systems, Solid Mechanics

PROJECT EXPERIENCE

Drivetrain & Chassis Team Member - Embry-Riddle Lunabotics - *August 2025 to Present*

- Designing, fabricating, and integrating drivetrain and chassis components for a rover competing in NASA Lunabotics competition at Kennedy Space Center
- Conducted industry-standard drawbar test to characterize rover wheel traction under simulated lunar regolith conditions
- Installed and validated upgraded gearboxes, verifying torque transmission and reliability
- Diagnosing and resolving motor control and drivetrain integration issues contributing to previous iteration failure at competition

Fabrication Lead - Project Aeolus - *2022 to 2023*

- Designed and developed a wireless charging and communication uplink pad to reduce human intervention in autonomous drone fleet operations
- Fabricated a lightweight composite enclosure to meet structural and mass constraints
- Secured over \$5,000 in research funding through a Fort Meade grant by authoring technical proposals and communication with grant managers

Director of Fabrication, Founding Member - South River Solar Hawks - *2021 to 2023*

- Founded a 20+ member team, overseeing design, fabrication, and integration efforts
- Managed the acquisition of over \$11,000 in tools and supplies, enabling fabrication of full-sized vehicles.
- Led fabrication of suspension, braking, chassis, and carbon composite aerodynamic shell of two solar-powered vehicles
- Designed, integrated, and validated mechanical systems for competition in the Texas Instruments Solar Car Challenge
- Secured over \$100,000 in funding through Anne Arundel County Public Schools grant

WORK EXPERIENCE

CEM Reporting Specialist - MNE Chick-fil-A - *August 2023 to Present*

- Collected, analyzed and presented customer experience metrics to management and training teams to support data-driven decision-making.
- Improved customer data collection procedures, increasing reporting efficiency.

Certified Trainer - MNE Chick-fil-A - *February 2022 to Present*

- Trained 50+ employees on store procedure, improving onboarding consistency and ensuring policy adherence
- Coordinated training operations using Trello

AWARDS

ERAU Presidential Scholarship

Fall 2023 to Present

Chick-fil-A Remarkable Futures Scholarship

Spring 2024