

CLANCY CRAWFORD

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+1(573) 881-7124

EDUCATION

Embry-Riddle Aeronautical University - Florida

- Bachelor of Science in Aerospace Engineering (May 2027)
Rocket Propulsion Track
- Bachelor of Science in Computational Mathematics (May 2027)
Engineering Application Track

John Wood Community College - Illinois

- Associates of Science - Engineering Science (May 2024)
Collegiate Volleyball and High Honors (3.75 GPA)
- Associates of Science: *Minor in Physics* (Dec 2023)
Collegiate Volleyball and Highest Honors (4.0 GPA)

PROJECTS

Avionics Box Structural & Thermal Analysis Design (4-person team)

Apr 2025

- Created 3D models on SOLIDWORKS and 2D engineering drawings of support and pipe structures; delivered technical reports and recommendations on material selection and design improvements.
- Analyzed supporting structure for an aircraft avionics box under multiple flight conditions (takeoff, cruise, turbulence, landing).
- Performed structural calculations for limit and ultimate loads, normal, shear, principal, and maximum shear stresses.
- Conducted thermal analysis: defined boundary conditions, estimated heat transfer, and sized supply/exhaust air piping to maintain avionics operating temperature.

ERFSEDS Fuel Grinder for Rocket Prometheus (collaboration with a team)

Dec 2024

- Collaborated within a team to brainstorm ideas to design a fuel grinder contraption for a project rocket using SOLIDWORKS.

Catia Travel Magnetic Makeup Brush Stand (individual)

Dec 2024

- Created a Catia design for this project with 13 unique geometric complex parts. Full engineering documentation was provided.
- Modeled parts, assemblies, and sub & main components. Presented my project and found improvements.

MATLAB Fitness Progress Tracker Program (individual)

Dec 2024

- Coded a program that allows users to monitor their fitness journey, track workouts, diet plans, body measurements, and goals.
- Used techniques involving data initializing, processing, manipulation, error checking, display formatting, and much more.

Projectile Launcher (2-person team)

May 2024

- Designed (SOLIDWORKS) and built a launcher: researched designs, created a materials list, and built a prototype.
- Performed calculations and analysis on range, velocity, energy, and efficiency; delivered an initial and final design report.

Bridge (individual)

May 2023

- Construct a bridge with the highest load to bridge weight ratio while meeting design constraints from basswood and hot glue.
- Created a final report that described the design process and calculated force vs. displacement.

SKILLS

Programs: Catia, SOLIDWORKS, LaTeX, MobaXterm

Languages: MATLAB, Python, Java

Certifications: Microsoft Office: Word, PowerPoint, Excel

WORK EXPERIENCE

Direct Receiving Specialist - MBS

2021 – 2024 (Summers)

Missouri

- Managed Inventory and Shipment Data: Utilized MBS Software to maintain shipment records, supply totals, and inventory data.
- Performed Shipment Inspection and Verification: Handled detailed inspections of shipment contents, verifying invoice accuracy.
- Collaborative Problem Solving: Worked with a diverse group of coworkers to accomplish goals and address product issues.

TRIO Office Assistant - John Wood Community College

Aug 2022 – May 2024

Illinois

- Collaborated on Office Support Task: Engaged with colleagues to provide flexible, proficient office support.
- Executed Office Support: Filed, copied, stuffed envelopes, managed documents to ensure streamlined productivity.

LEADERSHIP & INVOLVEMENT

ERAU: Club Volleyball (elected Treasurer of Women's and Men's Teams 2025-2026), Society of Women in Engineers (SWE), Society of Women in Space Exploration (SWSE), Embry Riddle Future Space Explorers and Developers Society (ERFSEDS)

JWCC: Collegiate Volleyball Athlete, Student-Athlete Advisory Council, Vice President of Phi Theta Kappa, Vice President of S.T.E.M. Club, and Member of Student Government Association

AWARDS

- Gold Scholar for Coca-Cola's Academic Team
- All-USA Academic Team by Phi Theta Kappa Honor Society
- NJCAA First Team Academic All-American in Women's Volleyball
- Microsoft Office Specialist State Champion Microsoft Word (Office 2016)
- Microsoft Office Specialist State Champion Microsoft Excel (Office 2016)