

# CLANCY CRAWFORD

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## 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 May 2024
- All-USA Academic Team by Phi Theta Kappa Honor Society May 2024
- NJCAA First Team Academic All-American in Women's Volleyball 2023, 2024
- Microsoft Office Specialist State Champion Microsoft Word (Office 2016) May 2022
- Microsoft Office Specialist State Champion Microsoft Excel (Office 2016) May 2022