

Hunter Wagner

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Education	University of West Florida Mechanical Engineering			January 2022 to May 2026 Bachelors
Projects	UWF Trebuchet Team			August 2024 to May 2025
	<ul style="list-style-type: none">Designed and developed a modern trebuchet, applying engineering principles of ballistics, structural analysis, and material selection.Performed buckling evaluations and stress analysis to ensure structural integrity under dynamic loading conditions.Contributed to the physical construction of the trebuchet, gaining hands-on experience with fabrication tools and assembly techniques.Utilized CAD software to model structural components and validate dimensions and tolerances prior to fabrication.			
	Design Build Fly competition			August 2023 to May 2024
	<ul style="list-style-type: none">Designed and built a radio-controlled aircraft for the AIAA Design-Build-Fly competition in Wichita, Kansas, adhering to strict performance and mission requirements.Focused on aerodynamic wing design, optimizing airfoil geometry for lift, drag, and structural efficiency under competition constraints.Contributed to the full fabrication and assembly of the aircraft, including cutting, bonding, and integrating wings, fuselage, and control surfaces.Collaborated with a multidisciplinary team to meet design deadlines, troubleshoot issues, and prepare for successful flight testing.			
	SAE Aero competition			August 2023 to May 2024
	<ul style="list-style-type: none">Led the airfoil and wing design for a competition-standard RC aircraft, optimizing lift-to-drag ratio and structural performance.Designed and modeled the entire aircraft in CAD , ensuring precise fit, manufacturability, and aerodynamic efficiency.Applied principles of aerodynamics, materials selection, and structural analysis to develop an efficient wing profile.Collaborated with multidisciplinary team members to integrate wing systems with fuselage, propulsion, and control surfaces.			
Involvement	Society for American Military Engineers President American Institute of Aeronautics and Astronautics Officer of profession relations American Society of Mechanical Engineers Member			
Certifications	NCCER National Center for Construction Education and Research,			May 2019
	Certified SolidWorks Professional Dassault Systemes			May 2025
	Six Sigma Green Belt Six Sigma			May 2025
Skills	CAD	Solidworks	GD&T	Project management
	C+	Excel	Adaptability	Engineering Drawing interpretation
	MatLab	XFLR5	FEA	Manufacturing processes
Experience	National Flight Academy Team Lead			March 2023 Pensacola FL
	Walmart OGP			March 2022 to March 2023 Navarre FL
	Crazy Cazboys Assistant general manager			April 2020 to March 2022 Pensacola FL
	Hunters Pet Care Owner			September 2016 to April 2022 Navarre FL