

Robert Thibodeau

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EDUCATION	Embry-Riddle Aeronautical University Bachelor of Science, Aerospace Engineering Area of Concentration: Astronautics	Daytona Beach, FL May 2026 GPA 3.6/4.0
PROJECT EXPERIENCE	Aerospace Engineering Project – Multistage Model Rocket: <u>Member of 2-person team</u> Constructed a multistage rocket capable of reaching an altitude of 2500 feet. Designed rocket from scratch in Autodesk Fusion 360, and 3D printed it. Used OpenRocket software to simulate test launches. MATLAB Final Project – Basketball League Database: <u>Individual Project</u> Developed a user-friendly basketball league database in MATLAB allowing users to customize teams and players. Implemented automatic stat tracking and updates within the database, streamlining data management for improved efficiency. Users able to automatically create charts and graphs based on certain data they wanted to compare. Principles of Engineering Final Project – 3D Scanning Robot: <u>Member of 3-Person team</u> Designed and assembled a robot capable of fully automatically scanning a 6' by 6' area and creating a 3D map of the scanned area using over 10,000 data points. Used the engineering process to redesign and improve the robot multiple times. Used C++ and 3D graphing software to run the robot. FTC Robotics 2022 Robot – Freight Frenzy Challenge: <u>Leader of 16-person team</u> Worked in a 2-person team to fully design the robot in Fusion 360. Led the business team to secure 7 new sponsors raising \$2000 in the process. Mentored an international team in Libya, helping them with project development, design, and team communication. Placed 18 th in the state of Iowa out of 162 teams. Led FMEAs to increase reliability and modularity. Astronomy Research – Dobsonian Telescope: <u>Leader of 5-person team</u> Developing a modular 8" refracting Dobsonian telescope in Fusion 360 to 3D print and use for research. Leading and teaching a team of members new to CAD and 3D printing. Collaborating using Fusion360 cloud file sharing.	
WORK EXPERIENCE	Contractor , PNW Home Improvement - Worked with a team of contractors to build and repair fences - Landscaped following a plan and guidelines laid out by the homeowner - Operated small machines to dig trenches and post holes - Installed and constructed small irrigation pipelines - Created personalized fence door designs with a CNC router	<i>Portland, OR</i> Summer 2023
SKILLS	Engineering Software: Systems Tool Kit, CATIA, MATLAB, Autodesk Fusion 360, Autodesk Inventor, Cura Technical: Drafting, 3-D printing, Power Tool Operation	
LEADERSHIP/ INVOLVEMENT	<i>Member</i> , AMRA MateROV <i>Member</i> , Amateur Astronomy Club – <i>Leader</i> , Telescope Design Team <i>Member</i> , AIAA <i>Team Leader</i> , FTC Robotics	Fall 2023-Present Fall 2022-Present Fall 2022-Present Fall 2020-Spring 2022
AWARDS	ERAU Presidential Scholarship Systems Tool Kit Level 1 Certification Howard Vernon Leadership Award National Merit Scholar Letter of Commendation	Fall 2022-Present Fall 2021 Fall 2021 Fall 2021