

John “Jack” A. McSwiggin

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EDUCATION

- Embry-Riddle Aeronautical University - Daytona Beach, FL - May 2026
 - **Bachelor of Science in Aerospace Engineering** - 4.0 GPA
 - **Honors Program**

RESEARCH EXPERIENCE

- **AP Research (2022):** “The Effect of Blade Count on the Performance of a Fanwing Used as a High-Lift Device”
 - **Result:** Corroborated previous research regarding the optimization of experimental propulsion

WORK EXPERIENCE

- **Busser at First Watch, Cincinnati, OH (June-August 2022):** Bussed tables, cleaned bathrooms, washed dishes, and helped customers with any issues

COMPUTER EXPERIENCE

- **CATIA V5 (September 2022-Present):** Part design and working
- **Fusion 360 (June 2021-Present):** Part design for research project and additive manufacturing
- **AutoDesk Inventor (January 2022-Present):** Part design for MateROV submarine

VOLUNTEER EXPERIENCE

- **Derbyshire Community Garden (2022-Present):** Weeding, seeding, and harvesting vegetables
- **Cincinnati Warbirds (2021-Present):** Setting up tents and cones for airport events and answering visitors' questions
- **RecycleForce (2010-2019):** Collected and lifted donations

LEADERSHIP EXPERIENCE

- **Board Member for Cincinnati Recycling & Reuse Hub (2020-2022):** Moved and stored materials, recommended plans for growth, and designed the original website
- **Pipe Major for Bagpipe Club (2020-2022):** Instructed new members how to play and led parades
- **Section Leader for Marching Band (2020-2022):** Ensured all members knew their music and how to march
- **Quartermaster for Marching Band (2019-2022):** Set up cones and technical equipment and stored them after practices

EXTRACURRICULAR ACTIVITIES

- **Plastic Free Campus Initiative (2022-Present):** Member
- **Embry-Riddle Pep Band (2022-Present):** Euphoniumist
- **Autonomous Maritime Robotics Association (2022-Present):** MateROV Team Member

HONORS AND ACHIEVEMENTS

- **AIAA Dayton-Cincinnati Aerospace Sciences Symposium (2022):** Best Presentation for Applied Aerodynamics and Controls
- **National Honor Society (2020-2022)**