

Ryle J. Traub

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EDUCATION

Embry-Riddle Aeronautical University
Bachelor of Science, Computer Science
Declared Minor, Finance

Daytona Beach, FL
May 2026
GPA: 3.42/4.0

TECHNICAL SKILLS

Programming Languages: Python | JavaScript | Java | SQL | C | PHP | HTML/CSS | MATLAB | Bash | Racket

Web Frameworks: Django | React | Flask | Symfony

Development Frameworks: Agile Scrum

Tools and Technologies: Unix | STM32 Microprocessors | AWS | ROS (Robot Operating System)

Additional Technological Skills: Excel | Autodesk Inventor | Adobe Illustrator | Adobe Premiere Pro | CATIA

PROJECT EXPERIENCE

Embry-Riddle Aeronautical University RoboRacer Team

January 2025 – Present

- Co-leading Embry-Riddle's autonomous racing team in the global RoboRacer competition, focusing on high-speed robotics and real-time systems
- Develop and integrate AI/ML models for autonomous decision-making using data analytics from onboard sensors and vehicle performance metrics
- Oversee system design, simulation testing, and ROS 2 development in a Linux environment to optimize control, perception, and planning modules

Diamond International Trading Broker-Dealer Web Application

June 2024 – Present

- Independently built and deployed a full-stack broker-dealer simulation platform with live NYSE stock and options data, secure authentication, and real-time account tracking
- Engineered the backend with Django and PostgreSQL to manage user data, balances, Stripe-based payment handling, and market driven stock recommendations based on several specified indicators
- Designed and hand-coded a responsive front-end using HTML/CSS with advanced user settings including chart display customization and other tailored data visualization options

BoundlessFlight Digital Aircraft Maintenance Web Application

January 2024 – Present

- Collaborated on a cross-platform aircraft maintenance platform with web and iOS interfaces, digitizing logbooks to improve safety, efficiency, and record traceability
- Built frontend UI components for web and mobile using responsive design principles, while integrating RESTful APIs to ensure seamless data communication
- Developed and connected live ADS-B data with a PostgreSQL backend to associate flight data with corresponding maintenance records

WORK EXPERIENCE

Charlie Fox's Pizzeria & Eatery

August 2019 – Present

- Lead order management, ensuring speed and accuracy with hundreds of tickets processed per shift
- Coordinated with kitchen and front-of-house teams to streamline workflows, reduce wait times, and maintain customer satisfaction in a fast-paced, high-pressure environment
- Trusted with key responsibilities including training new team members, managing closing procedures, and maintaining operational standards during rush periods

ACCOMPLISHMENTS & AWARDS

Embry-Riddle Dean's List Recipient, 2023 – Present

Embry-Riddle Honor-Roll Recipient, 2024

Embry-Riddle Presidential Scholarship, 2022 – Present

Embry-Riddle Track and Field/Cross Country Presidential Honor Roll Recipient, 2023

LEADERSHIP & ACTIVITIES

Thornwood Youth Running Club

July 2020 – 2022

- Launched and independently managed a youth running club with 50+ members, offering free coaching to children ages 4–14 in the local community
- Led and coordinated a team of peers to help run practices, organize meets, and mentor younger athletes—several of whom progressed to state-level high school competition

NCAA Division II Athletics

August 2022 – 2023

- ERAU Cross Country/Track & Field Student Athlete

Lazarus House Homeless Shelter Volunteer

Big Hearts Fox Valley Non-Profit Volunteer