Miles A. Osborne

355 Langshire Drive, McDonough GA, 30253 • (404) 547-7984 • milesosborne182@gmail.com

EDUCATION

Embry-Riddle Aeronautical University   Daytona Beach, FL
Major: Software Engineering   **GPA:** 3.06   December 2022

RELEVANT COURSEWORK

Software Engineering Practices
- In-depth study regarding software engineering practices and tools such as UML, Agile, and SRS
- Team based project designed to complete the software development cycle and deliver functional product

Computer Science II
- Introduction to object-oriented programming and intermediate to advanced software engineering practices
- Developing software solutions for on-campus organizations using Java and JavaFX

PROFESSIONAL EXPERIENCE

Computer Lab Assistant   September *2018—Present*
ERAU   *Daytona Beach, FL*
- Responsible for maintaining all computer stations and devices
- Provided technical assistance to students working on projects
- Always prioritized keeping the lab clean and safe

CAMPUS INVOLVEMENT

Embry-Riddle Future Space Explorers and Developers Society (ERFSEDS)   *January 2019—Present*
Project Zephyr, Avionics Member
- Designing telemetry software to analyze and filter data gathered in flight
- Designing computation software using MATLAB for supersonic parachute deployment
- Created 3D models for all electronics bay components using Autodesk Fusion 360

Experimental Rocket Propulsion Lab (ERPL)   *September 2018—Present*
Project Spectre, Rocket Design Team Lead
- Lead in conceptual design using OpenRocket software
- Collaborated with project leaders and members to develop control system
- Utilized Node.js for ground station and data collection through NASA's Open MCT software

Experimental Rocket Propulsion Lab (ERPL)   *September 2018-Present*
Project Aquila, Fuel Injection Design Member
- Designed small scale liquid engines with an intended thrust of 50 psi
- Acquired piping and hardware to withstand high-pressure applications
- Modified fuel manifold to integrate a pressure transducer

SKILLS & COMPETENCIES

- Video Editing: Sony Vegas, Hitflim
- Design & assembly of custom computers
  - System diagnostics and problem-solving
  - Hardware modification
  - System repair
- Programming Languages: MATLAB, C, Java, Python
- Web Dev: HTML, CSS (Basic), Javascript
- 3D Modeling/CAD:
  - CATIA
  - Autodesk Fusion 360