

# Miles Osborne

milesosborne182@gmail.com ❖ (404) 547-7984 ❖ McDonough, GA

---



## WORK EXPERIENCE

---

### Embry-Riddle Aeronautical University

September 2018 - August 2020

#### Computer Lab Assistant

Daytona Beach, FL

- Responsible for lab cleanliness and safety
- Maintaining & troubleshooting computer stations and devices
- Provided technical assistance to students working on projects

## PROJECT EXPERIENCE

---

### Personal Website ([www.milesosborne.com](http://www.milesosborne.com))

May 2020 - Present

- Built using HTML, CSS, JavaScript, and PHP
- Utilizing Foundation CSS framework for UI elements
- Implementing server & client-side form validation using PHP & JavaScript

### Project Spectre, Software Lead

January 2020 - Present

#### Experimental Rocket Propulsion Lab (ERPL)

- Developing active stabilization unit based on Arduino Nano Every microcontroller
- Teaching new members fundamentals of the software development process
- Modifying library interfaces for peripherals including servos, sensors, and breakout boards
- Created wiring diagrams and documentation for hardware integration

### Arduino Lightsaber

October 2019 - June 2020

- Replica model lightsaber powered by Arduino Nano Every microcontroller
- 3D printed custom handle in Nylon 12 SLS through Xometry Services
- User-programmable sound fonts and on the fly color changing
- 288 RGB LEDs contained in polycarbonate tube to achieve ignition effect

## VOLUNTEER EXPERIENCE

---

### Championship Martial Arts

November 2013 - May 2017

#### Assistant Instructor

- Attained the rank of 3<sup>rd</sup> Degree Black Belt in American Style Karate
- Co-lead karate classes for age groups ranging from 4 to 16
- Leader of Regional Performance Team that participated in exhibition and charity events

## EDUCATION

---

### Embry-Riddle Aeronautical University

May 2023

Major: Software Engineering GPA: 3.31

Daytona Beach, FL

## SKILLS & COMPETENCIES

---

- Video Editing: Sony Vegas, Hitfilm
- Design & assembly of custom computers
  - System repairs
  - Hardware modification
- Programming Languages: C, Python, Java, MATLAB
- Web Dev: HTML, CSS, JavaScript, PHP
- 3D Modeling/CAD:
  - Autodesk Fusion 360
  - CATIA