

# Miles Osborne

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## WORK EXPERIENCE

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### Embry-Riddle Aeronautical University

#### Computer Lab Assistant

September 2018 – August 2020

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

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### Personal Portfolio 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
- Learned PHP & JavaScript for server & client-side form validation

### Project Spectre, Software Subteam Lead

January 2020 - Present

#### Experimental Rocket Propulsion Lab (ERPL)

- Developing active stabilization unit using Arduino Nano Every microcontroller and MPU-9250 IMU
- Testing hardware components including IMUs, servos, switches, and microcontrollers
- 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 blade to achieve ignition effect

## VOLUNTEER EXPERIENCE

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### 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 four to sixteen
- Leader of Regional Performance Team that participated in exhibition and charity events

## EDUCATION

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### Embry-Riddle Aeronautical University

Major: Software Engineering    GPA: 3.24

December 2022

Daytona Beach, FL

## SKILLS & COMPETENCIES

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

[www.milesosborne.com](http://www.milesosborne.com)



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