

Miles Osborne

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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)

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 3rd 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: Python, C, Java, MATLAB
- Web Dev: HTML, CSS, JavaScript, PHP
- 3D Modeling/CAD:
 - Autodesk Fusion 360
 - CATIA