Edward Vivanco

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linkedin.com/in/edwardvivanco

Education (Cumulative GPA: 3.28/4.00)

University of Central Florida (May 2018 – August 2020) – B.S. in aerospace engineering

Valencia College (August 2016 – May 2018) – A.A. in General Education

Auburn University (August 2012 – December 2015) – B.S. in chemical engineering (transferred out before completion)

Certifications

National Institute for Metalworking Skills (October 2020 - January 2021) - Measurements, Materials, & Safety; CNC Mill Operations

Udemy.com (September 2020) – Ansys CFD Level 1

Florida Board of Professional Engineers (March 2021) – Engineer Intern (Mechanical)

Recent Experience

Project: Rocket-Powered Glider (August 2019 – May 2020), University of Central Florida; Orlando, FL

- Designed attitude determination algorithm using Madgwick filter quaternion calculations
- Constructed autopilot control system and conducted thorough aerodynamic and propulsive analysis to optimize wing, fuselage, tail, and assurance of autopiloted flight during boost, glide, and landing phases.

Recitation Leader and Engineering Lab Assistant (May 2018 – July 2020), Valencia College; Orlando, FL

- Taught engineering students the fundamentals of static and dynamic structure analysis by applied mechanics, mathematics, conventional conservation laws – increased passing rates for students in engineering courses
- Improved proficiency among students in MATLAB and Excel for solving engineering related problems

Kitchen Staff (December 2017 – May 2018), Toasted Craft Sandwiches; Orlando, FL

Production Assistant, Juris Imaging & Graphics (September 2016 – August 2017); Orlando, FL

Litigation Assistant (May 2016 – September 2016), Law Office of Dan Newlin & Partners; Orlando, FL

Technical Skills

- Knowledgeable in the subjects of aerodynamics, aerothermodynamics, propulsion systems, orbital mechanics, and aerospace structures
- **Structural Loading Analysis –** NASTRAN, ANSYS
- **Computational Fluid Dynamics –** ANSYS, OpenFOAM
- **Computer Programming –** C/C++, Python, Java
- **Statistical Data Analysis –** MATLAB, Microsoft Excel
- **Data Acquisition** - LabView
- **Computer Aided Design –** Solidworks, Fusion 360, Solid Edge
- **Orbital and Suborbital Mission Design and Analysis –** STK, GMAT
- **Control Design –** MATLAB/Simulink