

BRANDON C. FALLIN

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EDUCATION

University of Florida

May 2022

Bachelor of Science of Mechanical Engineering, Herbert Wertheim College of Engineering

Bachelor of Science of Aerospace Engineering, Herbert Wertheim College of Engineering

GPA: 3.89/4.00

Related Coursework: Aerospace Design 1, Mechanical Design 1, Stability & Control of Aircraft, Mechanics of Materials Lab, Dynamics, Compressible Flow, SolidWorks, MATLAB, Design & Manufacturing Lab, Circuits, Astrodynamics, and Aerodynamics

WORK EXPERIENCE

University of Florida Mechanical and Aerospace Engineering Department

August 2021 – December 2021

Teaching Assistant – Stability and Control (EAS4400) (10 hrs/week)

Gainesville, FL

- Assisted Dr. Richard Lind in the facilitation of office hours for students and grading homework assignments, projects, and exams
- Provided supplementary instruction to students covering topics such as static stability and control of aircraft, flight dynamics, longitudinal and lateral-directional modes of flight, and aircraft responses to excitation
- Developed study guides and informational handouts relating to current material being covered

Power Design, Inc.

June 2021 – August 2021

Mechanical Engineering Intern (40 hrs/week)

St. Petersburg, FL

- Worked alongside Plumbing Engineers and Associate Plumbing Designers to produce technical drawings in Revit for multi-family high rise, retail, and amenity spaces
- Produced technical unit plumbing plans including domestic hot/cold water, sanitary piping, and natural gas for The Standard at South Carolina. Addressed comments on plan sets to ensure design conformed to International Plumbing Code specifications
- Participated in 40+ hours of training focusing on Revit fundamentals, plumbing systems and equipment, and crash courses in the basics of mechanical and electrical design

Protean Design Group

July 2020 – June 2021

Student Design Intern (40 hrs/week)

Orlando, FL

- Worked alongside Project Engineers to design and plan production tasks in MicroStation for Florida Department of Transportation contracts
- Produced technical CADD drawings and diagrams relating to the success of each project, and revised the work of other engineers for quality assurance
- Produced technical Signing and Pavement Marking CADD plans for the SR 408 resurfacing project over the course of 3 months. Developed a Condition Assessment Memo (CAM) to evaluate the current state of signs on the 408 and verified data with measurements in the field

INVOLVEMENT

University of Florida Interfraternity Council

November 2020 – November 2021

Vice President of Administrative Affairs

Gainesville, FL

- Directly oversaw a team of directors, assistant directors, and ambassadors that constitute the IFC Mental Health Initiative, ThriveIFC
- Acted on executive board assisting in decisions affecting 23 IFC chapters with 2,000+ total members
- Produced content to represent the UF Interfraternity Council on all social media platforms and maintained website with new graphics and up-to-date information

TECHNICAL SKILLS AND CERTIFICATIONS

- SolidWorks Associate Certification – Motion Analysis, Design for Manufacturability
- Drafting and 3D modeling using Revit
- Systems Toolkit Level 2 Certification (Master Level Certification)
- Analysis and visual representation of data using Microsoft Excel
- Manufacturing experience using CNC mills, lathes, water jets, welding, and Geometric Dimensioning & Tolerancing
- Computer programming and analysis using MATLAB, LabVIEW, and Python
- Technical drafting using SolidWorks
- Technical plans production using MicroStation and AutoCAD
- Testing and instrumentation using strain gauges

AFFILIATIONS

Florida Blue Key, Pi Kappa Phi, University of Florida Dean of Student's Office, Reitz Scholars Program