MARK J. WAGNER

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EDUCATION

Bachelor of Science in Aerospace Engineering | May 2021 | University of Florida

- Minor in Computer and Information Science and Engineering
- GPA: 3.57
- Relevant Coursework: Aerodynamics, Aerospace Senior Design, Aerospace Structures, Aircraft Stability and Control, Data Structures, Design and Manufacturing Laboratory, FEA, Thermodynamics, Operating Systems

Associate of Arts | May 2017 | Florida State College at Jacksonville

- Graduated with Honors
- GPA: 3.68
- Received Associate of Arts Degree and high school diploma concurrently

WORK EXPERIENCE

Design and Manufacturing Lab Teaching Assistant | University of Florida | August 2019 to Present

- Instruct students to safely operate milling machines, lathes, MIG welder, and other manufacturing equipment
- Provide technical feedback and grading on various robot design concepts, design reports
- Train new teaching assistants in machine operation, design for manufacturability, and teaching skills

Undergraduate Researcher | University of Florida | November 2020 to Present

- Research for the Non-Traditional Manufacturing Laboratory, part of the Additive Manufacturing team
- Responsible for data collection, progress reports, and research summaries on independent research project

PROJECTS

Non-Traditional Manufacturing Lab Project | Research Project

- Investigate surface finishing of an additively manufactured workpiece with complex geometry
- Responsible for design and manufacture of a new machine for project, including CAD and electrical systems

Aluminum Bolt-Action Pen | Personal Project | github.com/MarkWagner99/Pen

- Completed design and manufacture of a pen that could be used with a G2 Pilot Ink Cartridge
- Generated full SolidWorks models and engineering drawings, manufactured using lathe and milling machine

Design and Manufacturing Lab Robot | Team Project | github.com/MarkWagner99/DML-Robot

- Iterative design process which taught design for manufacturability, group collaboration, and systems design

SKILLS & ACHIEVEMENTS

- Software Skills: SolidWorks, MATLAB, Fusion360, ABAQUS, C++, C#, Java, Microsoft Office
- Engineering experience with milling machine, lathe, CNC, and engineering drawing generation
- Design experience with a focus on design for manufacturability
- Experience with data acquisition and analysis from student and research labs

INVOLVEMENT

Member | Sigma Gamma Tau Aerospace Honor Society | February 2021 to Present

Member | University of Florida Habitat for Humanity | September 2019 to Present