

Mark Wagner

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Education

Bachelor of Science | Expected May 2021 | University of Florida

- Bachelor's Degree in Aerospace Engineering
- Minor in Computer and Information Science and Engineering
- Current GPA: 3.54 / 4.00
- Relevant coursework: Aerodynamics, Aerospace Structures, Aircraft Stability and Control, Astrodynamics, Data Structures, Design and Manufacturing Laboratory, Finite Element Analysis, Operating Systems

Associate Degree | May 2017 | Florida State College at Jacksonville

- Associates of Arts, Honors
- GPA: 3.68 / 4.00
- Studied in the Early College program, received Associate Degree and high school diploma concurrently

Work Experience

Design and Manufacturing Lab Teaching Assistant | UF | August 2019 to Present

- Instruct students to safely operate milling machines, lathes, MIG welder, and other equipment
- Provide technical feedback and grading on various robot design concepts, design reports
- Build up personal engineering skillset and technical communication skills with weekly TA training
- Supervise and advise in student shop, where MAE faculty can machine various projects

Skills & Achievements

- Software Skills: SolidWorks, MATLAB, Fusion360, ABAQUS, C++, C#, Java, Microsoft Office
- Engineering experience with milling machine, lathe, sheet metal, and welding equipment
- Design experience with a focus on design for manufacturability
- Experience with data acquisition and analysis from various student labs

Projects

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

- Completed design and manufacture of a pen that could be used with a G2 Pilot Ink Cartridge
- Full SolidWorks model creation, drawing generation, and manufacture using lathe and milling machine

Team Project | DML Robot | github.com/MarkWagner99/DML-Robot

- Iterative design process which taught design for manufacturability, group collaboration, and systems design
- Coordinated part design, manufacture, and testing to create a robot able to manipulate, store, and dispense tennis balls

Involvement

Member / UF Rocket Team | February 2020 to Present

- Work with the IREC modeling and simulation sub-team to assist in the design of the competition rocket
- Manufacture various components for the IREC and NASA Student Launch rockets

Member | UF Habitat for Humanity | September 2019 to Present

- Collaborate with team to construct housing for low-income families
- Advocate for affordable housing in the Alachua County area