

# Mark J. Wagner

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## EDUCATION

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

- Minor in Computer and Information Science and Engineering
- GPA: 3.54
- Relevant Coursework: Aerodynamics, Aerospace Structures, Aircraft Stability and Control, Astrodynamics, Data Structures, Design and Manufacturing Laboratory, Finite Element Analysis, 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

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***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 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

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- 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

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***Aluminum Bolt-Action Pen*** | Personal Project | [github.com/MarkWagner99/Pen](https://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](https://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

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***Member*** / University of Florida 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*** | University of Florida 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