

# Arthur Hafliger

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## Education

**Pasco-Hernando State College** - Associate in arts (3.7 GPA) – 5/20/25

**University of Central Florida** - Bachelor of Science in Mechanical Engineering (3.7 GPA), Math/Robotic Systems Minor - 2028

## Technical Skills

**Drafting** - Solidworks(CSWP, CSWA), some Fusion 360

**Programming** - Basic understanding of Python, C, and C++

**Microsoft office** - Proficient in Word, Excel, and Powerpoint

**Soldering** - basic understanding



## Relevant Coursework

General Physics 1 and 2, Intro to Python, Intro to C, Technical Writing, Statics, General Chemistry 1 and 2, Calculus 1-3

## Experience

**Wawa** - Port Richey/Oviedo, Florida,

12/9/23 - Ongoing

*Customer Service Associate*

- Handle deli operations, manage food preparation while maintaining clean standards, demonstrate effective communication to management and fellow associates
- Collaborate with fellow associates to create effective work schedules, demonstrate effective conflict resolution

**Wendell Krinn Tech High SAC** - New Port Richey, Florida,

8/1/22 - 5/1/23

*Student Advisory Council – Co-Chairmen*

- Participate in meetings with school officials, review budgets and proposed plans for school spending, vote on utilization spending
- Demonstrate effective leadership for the student body by showing awareness of school needs and asking the necessary questions

**Radial Aircraft Engine CAD** - New Port Richey, Florida,

8/1/23 - 5/1/23

*Self Directed*

- Demonstrate substantial knowledge in SolidWorks CAD, general part modeling, interpreting drawings
- Develop innovative solutions to assembly related problems, ensure functionality of basic/mechanical/advanced mates

**Linetracking/Trash collecting Robot project** - Wendell Krinn Tech High, New Port Richey, Florida,

1/1/24 - 5/1/24

*Team Lead*

- Design and construct a robot no wider than 7 inches that will autonomously track a line while also picking up designated "trash cans" filled with marbles of variable size, filter marbles within robot according to size, while properly logging updates and changes in an engineering notebook
- Develop a complex program in C++ enabling line tracking capabilities, utilization of a manipulating arm, operation of a color sensor
- Utilize SolidWorks for design before physical construction, using Vexx brand electronic components
- Develop a mechanically sound and compact design, including a drivetrain, manipulating arm, and a sorting system
- Work to ensure teammates contribute equally, ensure positive morale and basic conflict resolution

**Stairclimbing Robot Project** - Wendell Krinn Tech High, New Port Richey, Florida,

8/1/23 - 12/1/23

*Team Member*

- Design and construct a robot that can autonomously climb up and down stairs, utilize sensors such as switches and bumpers to orient the robot and home its components such as a rack and pinion
- Develop a complex program in C++ enabling the use of sensors, find innovative methods to ensure proper integration of sensors
- Utilize SolidWorks for design before physical construction, using Vexx brand electronic components

**SolidWorks Student Leadership Program** - University of Central Florida, Orlando, Florida,

9/1/25 - Ongoing

*Member*

- Completion of CSWP prep Program

## Interests

Mechanical Engineering, Robotics, Physics, Chemistry, Weightlifting, Aerospace Engineering