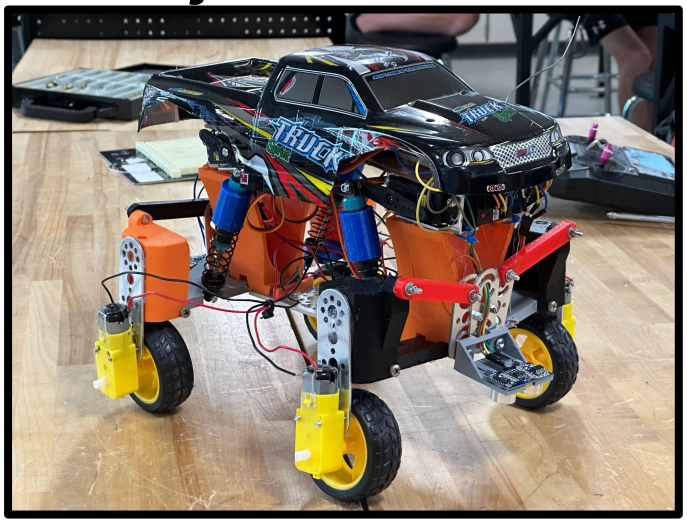
Project TASRC

Design Goals:

- Mostly 3D Printed.
- To adapt to its surroundings.
- Have one servo per arm.
- Somewhat resemble a real RC car.
- Double Wishbone suspension on front and rear.



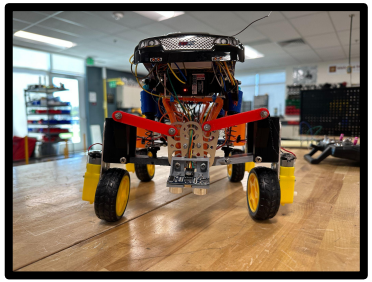
Background:

I have always liked rc cars, I have many different types, ranging from racers to crawlers. I have always thought an adaptive suspension system on an rc car would be really cool. This brings me one step closer to my goal.

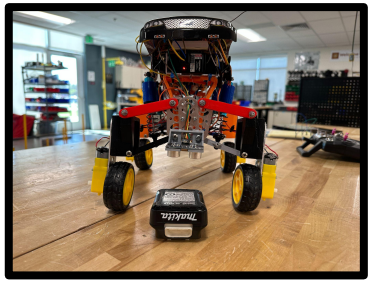
Lessons Learned:

- Even an Arduino Mega doesn't have enough processing power for 4 sensors and 4 servos.
- Steering Assemblies are shockingly hard to design and manufacture.

Before:



After:



Accomplishments:

- Most 3D printed parts were custom designed.
- 50 millisecond response time.
- Runs on only 5V.
- Tank style control.
- 4 wheel drive