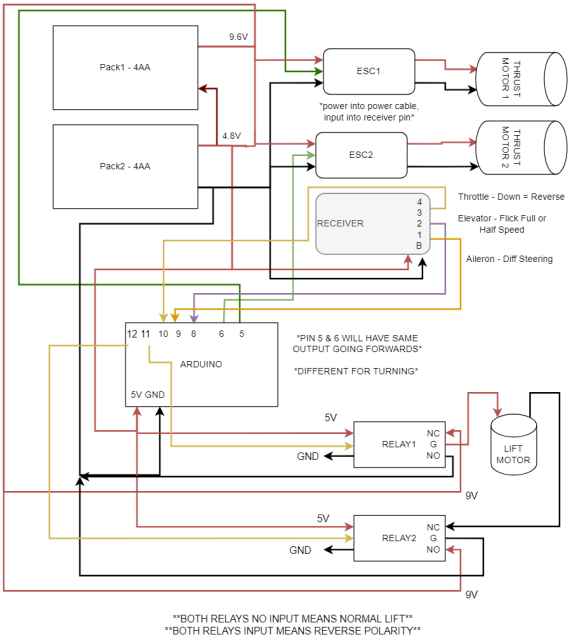
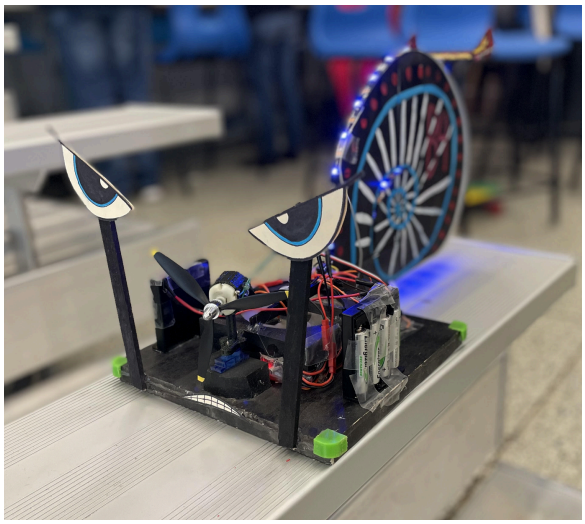
RC Hovercraft Project

As a second-year mechanical engineering student, I was challenged to apply my knowledge and skills to a final project for the RC hovercraft competition. This competition brought together the entire second-year mechanical engineering cohort, and my team's hovercraft secured a third place finish out of 20 teams.





The hovercraft was powered by two DC motors and controlled with ESCs, which required a strong understanding of electrical engineering principles. I utilized my knowledge of C programming to develop the arduino code that would act as the brains of the hovercraft. The competition was scored over multiple events, including top speed, maneuverability, speed control, and more. Additionally, factors such as mass, material cost, and aesthetics were taken into consideration when determining the overall score.

Balancing all of these variables required careful optimization and consideration. We faced additional challenges, such as limits on the types of batteries we were allowed to use and the limitations of using very weak DC motors. Despite these challenges, I was able to demonstrate my electrical and programming skills to bring the hovercraft to a successful performance.

This project gave me a unique opportunity to apply my knowledge and skills in a real-world scenario, as well as work in a team to achieve a common goal. It was a great experience to have hands-on experience in designing, building, and testing a functioning hovercraft. I was able to demonstrate my ability to work within constraints and find creative solutions to overcome obstacles. This project helped me to further develop my electrical, programming, and mechatronics skills, and I am confident that these skills will be beneficial to my future career in the field.