



EXO AQUANAUTS

Storm and Rescue

ExoAquanauts

USA, FI, Lithia



Abstract

We chose this project to help in a real world situation where storm debris might need to be moved after a hurricane. If we can get strong enough thrust from the motors you can move trash or debris to boost water quality. And wildlife recovery after a storm

Methodology

When building our ROV we thought of how it could be used to guide people to safety or bring food from far areas when in a hurricane or a flood.

Results & Discussion

While driving and making the ROV, the team found out how buoyancy velocity and resistance effects ROV. It was surprising to us how the trim and buoyancy on the ROV works We learned that weight distribution and buoyancy is a key factor to making our ROV maneuverable.

Conclusion

When Making and learning about our ROV we learned about buoyancy and trim. Our ROV will be a helpful resource in the event of a storm. And we think it is a great asset for responding to a storm.

Background & Motivation

The motivation for the project was to explore new areas of STEM and have fun while doing it.

Next Steps

We want to use our ROV in place that can help like removing trash in areas with water or help out by being a guiding drone for people stranded .

Acknowledgements

If it wasn't for Dr. Bradner, Mr. Day, and the other parents who helped us, we might have never gotten anywhere with our ROV.