

crawfish farm



Background and Motivation

In Louisiana, crawfish is an important part of many family's diets during the Lent season. Crawfish live in an aquamarine environment. Traps are set down in the pond with a wire frame attached to it. They are left in the ponds overnight to catch the crawfish. Oils on humans hands can be harmful to the crawfish's gills and skin when absorbed from water.

Project Overview

This project was introduced to us around the same time that our families went to Meico to see coral reefs. We signed up for a snorkeling day where we brought our gear and special oil free sunblock, but we couldn't find coral reefs. We also recently learned about an aquatic organism that is important to our community as a food resource. All these things we learned about had a connection. We all work together and sometime we work against each other too.



"Crawbot" Prototype

ROV Crawfish Collector

A solution to collect crawfish as fast as possible to supply the Cajun people with food

Abstract

Our project is about an easier and better way to collect crawfish. The ROV "crawbot" collects crawfish from the crawfish traps with its arms and dumps them into the belly of the ROV. This quicker and easier method to collect crawfish is also safer for the crawfish's habitat and environment.



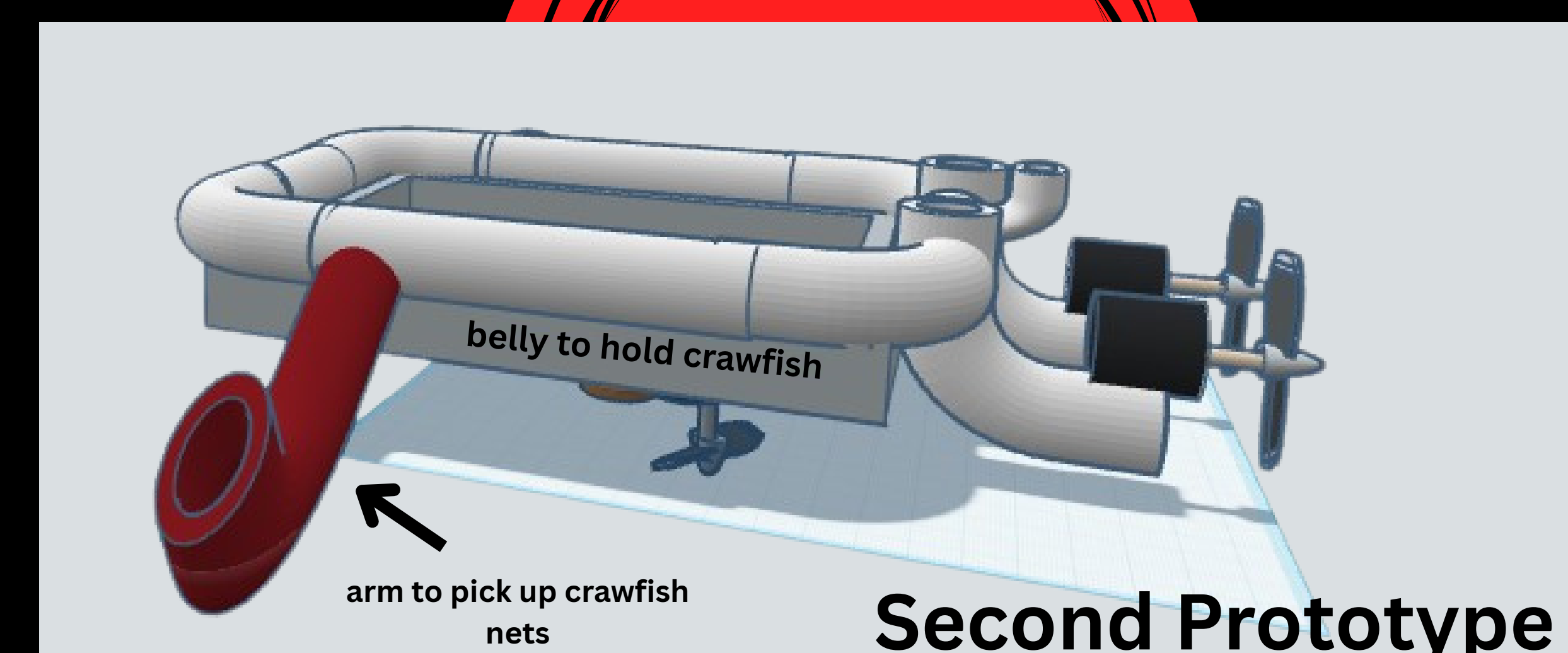
Crawfish trap

Approach

The design of the "Crawbot" is made to hold crawfish in the belly of the ROV. There are hooks located around the outside frame to pick up crawfish nets and dump them into the belly.

Design Specs

The design of the "Crawbot" is made with a belly in the center to hold the crawfish. The arms will pick up the traps and dump the crawfish into the belly. The ROV needs to have stability and easy maneuverability.



Second Prototype

Next Step

The mechanical gears of the ROV arms need more development to easily dump the trap into the belly of the ROV.