RoboGoby V2 – Robotics | 2014 - 2015

https://robogoby.blogspot.com

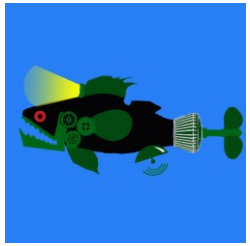
Travis Libsack

Objectives

Project RoboGoby is a robotics project started to create an inexpensive submersible for local researchers, dam builders, and shipyards

It was a project started in 2013. In 2015, along with two of my friends, we upgraded our first design to be more user-friendly and robust

This project was intended create a 5 degree of freedom submersible capable of live video streaming for damn inspections and autonomous monitoring of fisheries

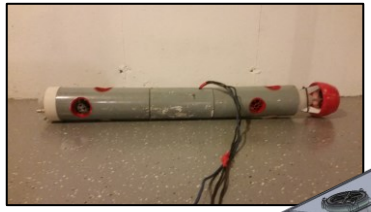


Project RoboGoby Logo

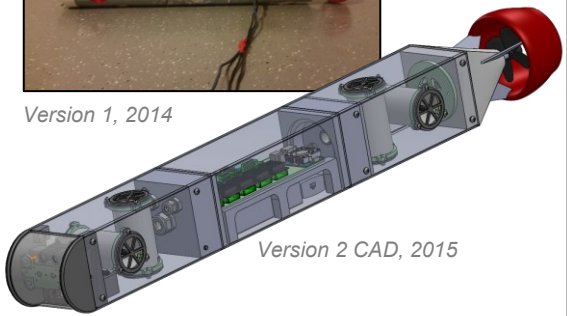
Proof of Concept

The design went through numerous iterations using CAD to design and then building out the concept

Pictured on the left is V1 of the submersible along with V2 CAD from 2015



Version 1, 2014



Version 2 CAD, 2015

Approach

In order to gain funding and understand of the market for our submersible we spent time talking with local professionals who might use our product and applying for local and state grants

Institutions we talked with regarding our design were: *Bigelow Labs*, and *The Gulf of Maine Research Institute*

We also were apart of a few funding grants & challenges including: *Princeton's TigerLaunch*, *Maine Technology Initiative's (MTI) SEED Grant*, and *UMaine's Business Challenge*

Results

Video of final design: https://www.youtube.com/watch?v=cow2FCg7Kqk

Our final design was able to complete all the maneuvers outlined in the design phase of the robot