

Scoping Presentation

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OpenROV

Project Scope Overview

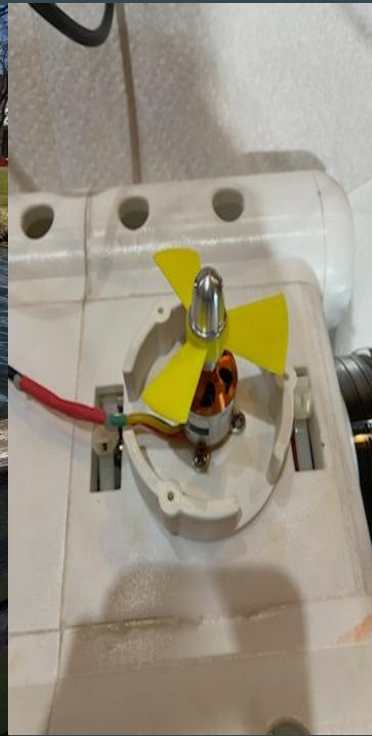
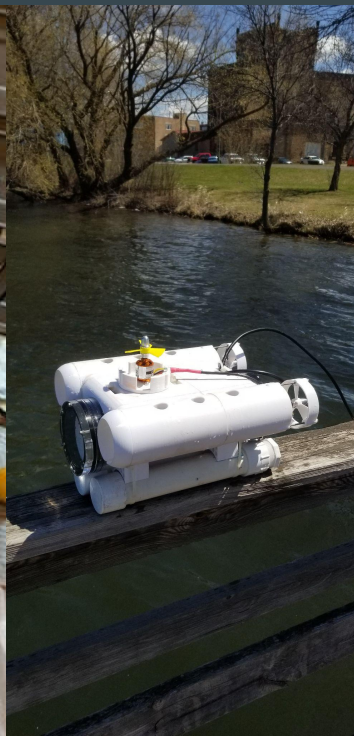
Goal: improve upon the existing OpenROV at IRE, and provide additional data to its community

This is the 3rd time this project has been worked on.

Intentions:

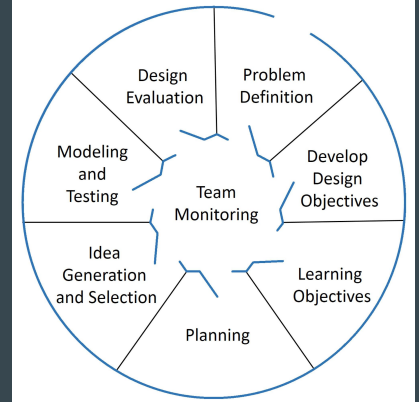
- Add ballast system
- More sensors
- Better waterproofing
- Publication of final product

Diagrams/Pictures



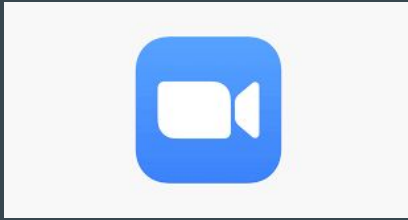
Design Process

- + Test current design
- + Evaluate performance
- + Research ballast and sensor systems
- + Test improvements



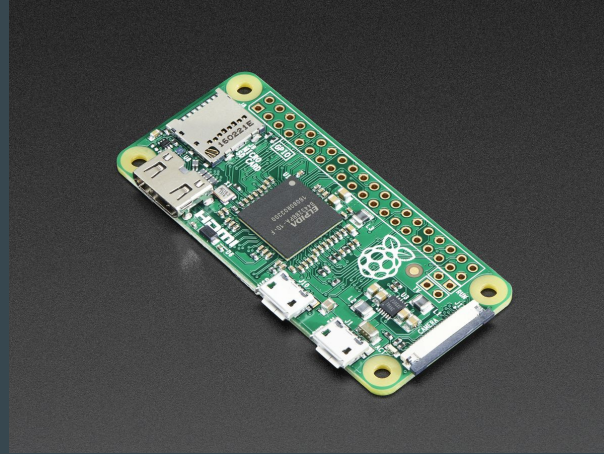
Project Management Tools

- + Communication
 - + Discord
 - + Zoom
- + Time Tracking
 - + Google calendar
- + Organization
 - + Google drive
 - + Team contract



Expected Technical Learning

- + Sensory Circuits
- + Ballast systems and buoyancy
- + Control systems
- + Waterproofing



Learning Objectives

Overall - We would like to become more familiar with the OpenROV community and contribute back by adding documents and schematics

REDACTED: I would like to better understand circuitry as well as the mechanics of how certain parts work.

REDACTED: I would like to become familiar in using circuitry and control systems in non-ideal environments.

REDACTED: I would like to become better at wiring, soldering, and understanding circuitry



Future Work

- + Receiving and testing the OpenROV platform
- + Planning modifications
- + Executing modifications
- + Testing and Validation
- + Documentation and Publication Deliverable

