

PROJECT SCOPE STATEMENT

Project Name

F.L.O.A.T. (Facilitating Level Objectives Assessment Technology)

Project Deliverables

Trained Prototype Litter Detection

As an operator: I want to be able to see live-image recognition of the litter in Saskatchewan waters through the use of our developed software and a GoPro camera.

Online Data Readings

As an operator: I want to be able to view the F.L.O.A.T. website and see the data being recorded by the trained prototype in regards to the type of litter, and certain readings on water quality.

Finalized Online Data Readings

I, as an operator, would like to view a website closely resembling the high fidelity prototypes. On this website I would be able to view information such as the GPS coordinates of the litter, the type of litter identified, water quality information, etc.

Finalized Product Working Out In The Field

I, as an operator, would like to be able to have a fully functioning drone capable of traversing in Saskatchewan waters. This boat drone would be capable of housing all the components necessary for our project on its vessel.

Project Exclusions

Operable Drone: Ideally we would like a completely manufactured vessel that we could operate either manually or through the use of planning/charting out a course for the vessel to follow. Ideally this vessel would have waterproof housing for all necessary electronics, cameras, batteries, etc.

Live Sample Retrieval: Ideally in the future we would love for this vessel to not only be able to give live readings of the water quality, but also we would like for it to be able to retrieve samples of the water to bring back for further testing to meet water quality testing regulations. This is something we see as out of scope because we don't intend on developing a unit to house and retrieve samples for our drone.