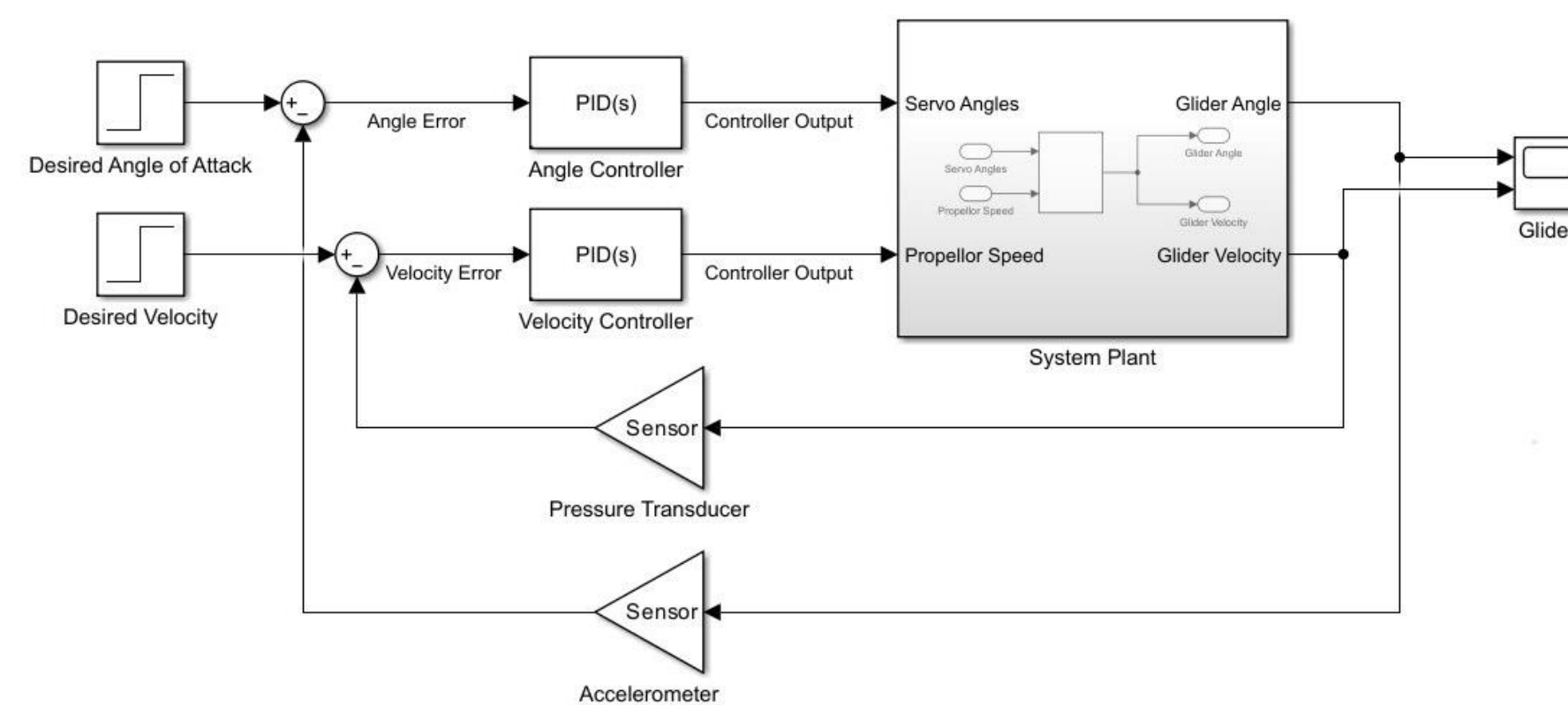
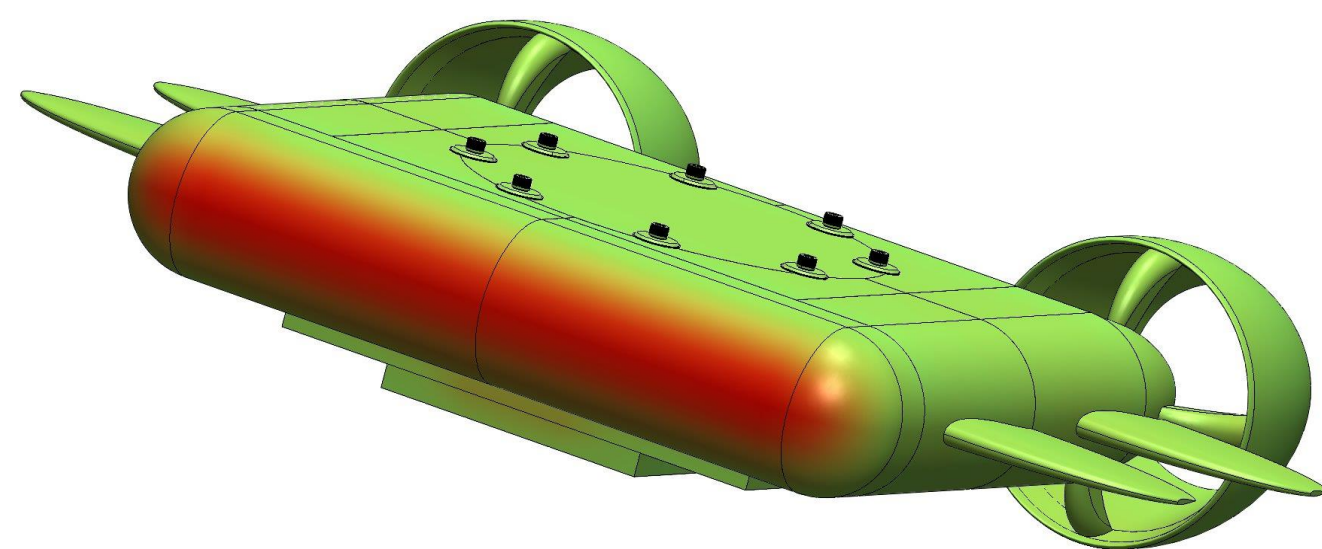


Objective

The objective of this project is to **simulate and construct an underwater glider.**

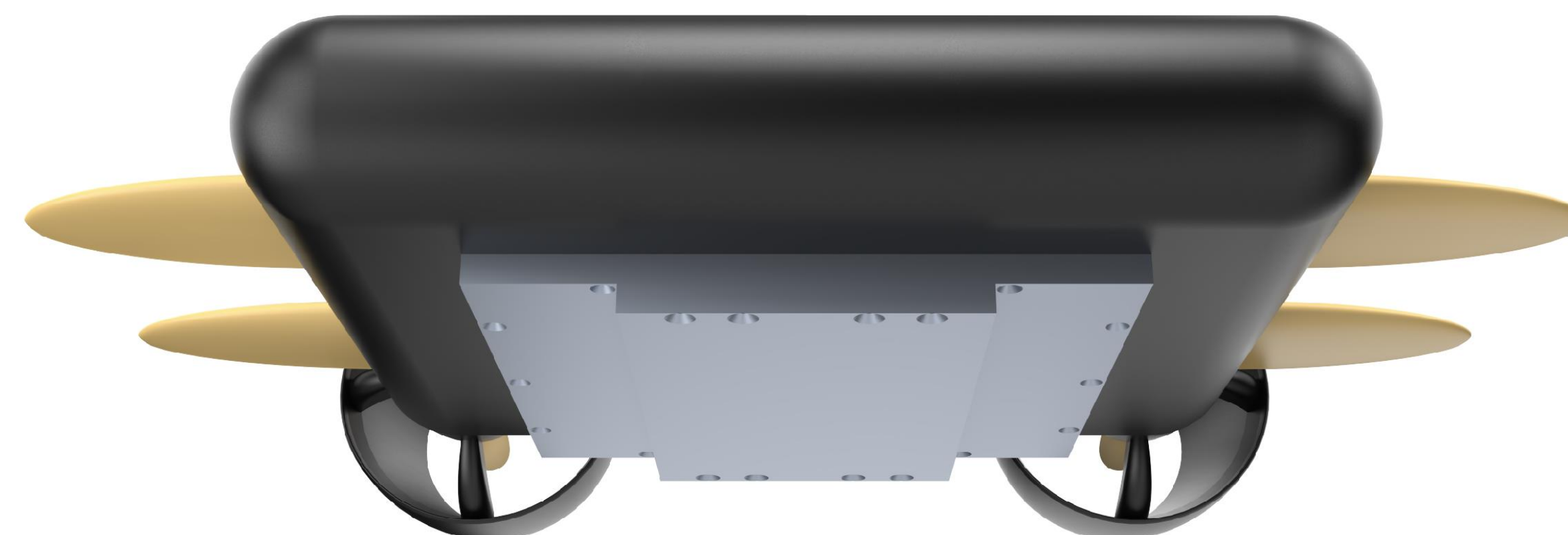
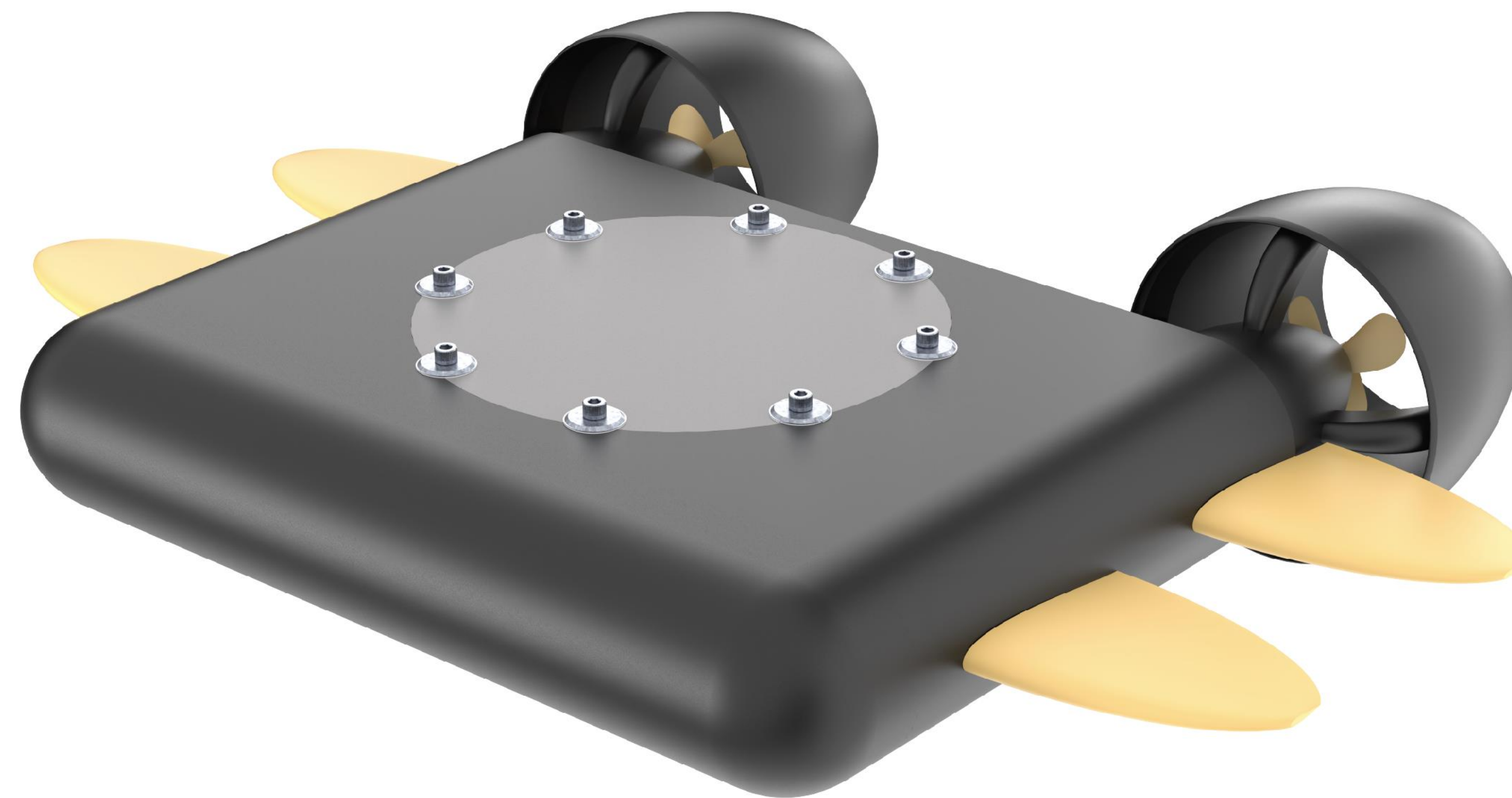
Simulations

The team has utilized a variety of simulation applications to determine factors such as pressure distribution over the body, water flow over the glider, and more.



Proposed Design

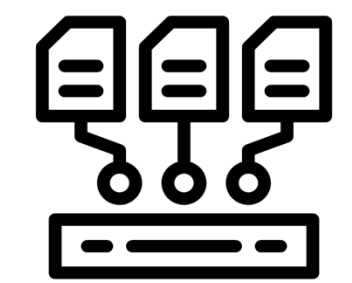
The glider is composed of a **dual hull configuration** and a **central housing unit**. The physical and simulated design will be driven by propellers and controlled using **4 dive planes**.



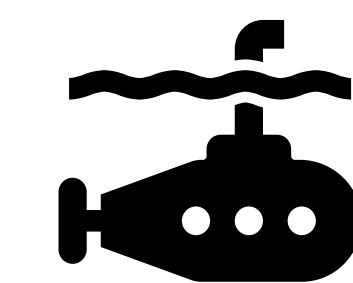
Key Goals



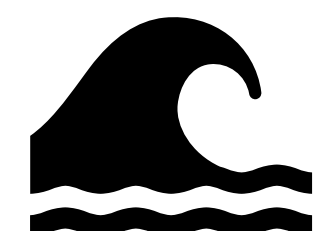
Energy Efficiency



Data Collection



Motion



Durability

Data Collection

Validation of results will be performed with **pitot probes and temperature measurement devices.**

Physical Setup

The glider has a PLA printed center body and nose cone, with the propellers and planes being resin printed. The dual tanks use PVC piping. Two aluminum 7075 plates are attached to the bottom.