TEAM TAHI!

TAM YOUNG ENGINEERS CLUB

Our design is unique because it is 3D printed, this allowed us to create a more advanced shape. Our design is torpedo shaped which is streamlined and light and makes our Aquabot fast and maneuverable. We created an egg cup like device to hold our up/down motor in place.

Our design is a hollow 3D printed torpedo shape. We have a bracket on either side to hold the left/right motors and we created an eggcup-like contraption which holds the up/down motor. The nozzle of our torpedo base can be taken on and off which allows us to be able to control the weight of our aquabot, achieving neutral buoyancy. Our attachment is two hooks connected with a net, which attaches underneath our aquabot, with this we can pick up and move the objects we need to. Our design is light, streamlined, with reduced drag, and increased speed.

The biggest thing we've learnt this season is the importance of the design process. This includes : defining a problem, researching, finding solutions, planning, creating, testing and improving. We followed this process to improve our Aquabot. The design process is helpful for making big tasks into smaller, more manageable ones.

- Jurnee is in year 11 and this is her third year doing AquaBots.
- Siwan is in year 10 and this is her third year doing AquaBots.
- Maia is in year 8 and this is her first year doing AquaBots .
- Jessica is our coach and mentor from the Rotorua Public Library