K – 2nd Grade Category

SILVER AWARD

Julia Eduardo

"The Mega Fishing Pole"

School: **Spencer Elementary**

Teacher: **Gillian McColgan**

Mentors:

David Byron — SUNDBERGFERAR

Shanta Kumarasuriar — CCS

Design Concept:

The Mega Fishing pole has a camera and a screen with a computer in it and brings real scientific facts to the user, so even if you are not fishing you can learn more about underwater.

MEGA FISHING POLE

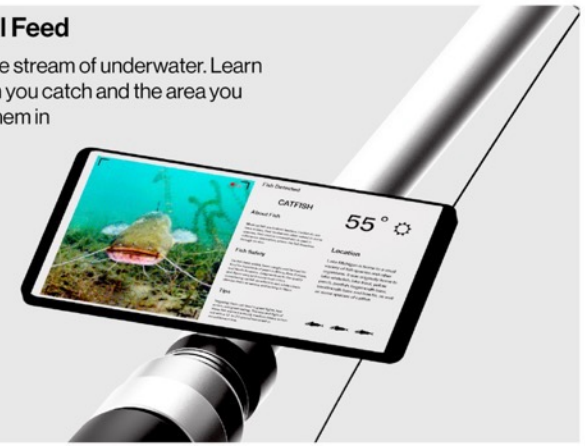
The Mega Fishing Pole with a bobber equipped with a video camera is a revolutionary tool that allows anglers to not only see the fish they catch but also receive real-time information about their species, size, and behavior, providing a unique and immersive fishing experience.

Bobber

Bobber has a built in camera to stream a live view of underwater

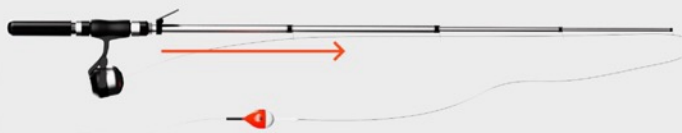
Live Visual Feed

Gets you a live stream of underwater. Learn about the fish you catch and the area you are cathing them in



Compact

The design of the fishing rod incorporates a telescoping mechanism, allowing it to be compacted for easy storage and transport.



K – 2nd Grade Category

GOLD AWARD

Maxwell Phillips

“Water Spinners”

School: **Spencer Elementary**

Teacher: **Gillian McColgan**

Mentors:

David Byron

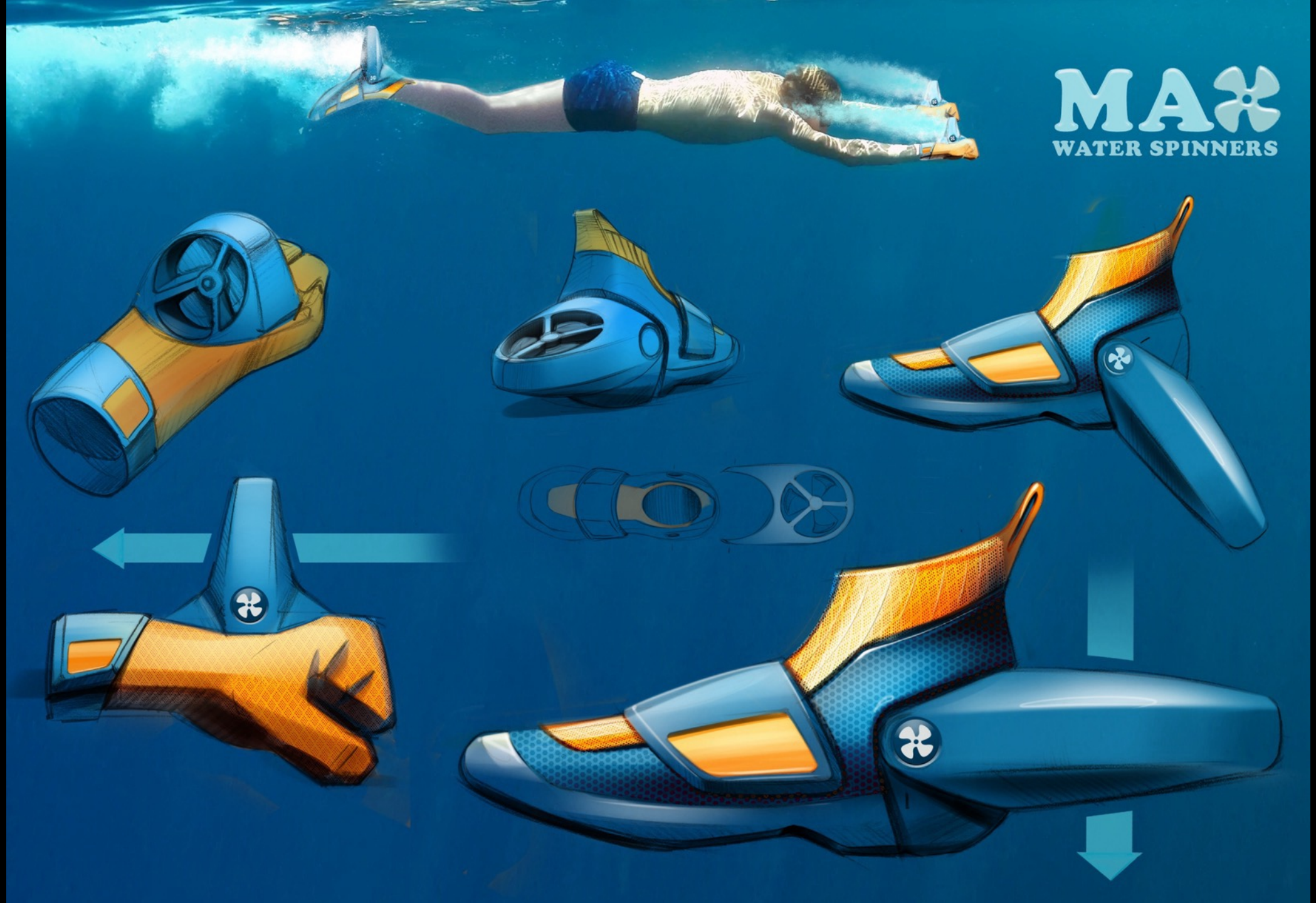
SUNDBERGFERAR

Wen Chen

CCS

Design Concept:

I was interested in designing something that a swimmer would not have to hold onto in the water, and to assist with transportation in the water.


MAX
WATER SPINNERS

WATER SPINNER SHOES

VELCO STRAPS
WITH MESH UPPER

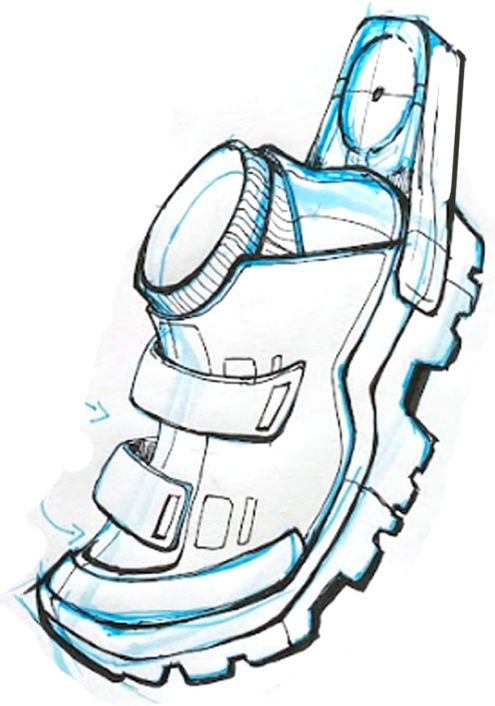
LINING FOR
COMFORT

STIFF HEEL WITH
BUILT IN TAB

DETACHABLE FAN

GRIPPY RUBBER
SOLES

INITIAL IDEATION



3rd – 5th Grade Category

BRONZE AWARD

Addie Farms

Ella Diaz

Mia Gidcumb

Bethany Smith

"Pollution Pod"

School: **Roosevelt Elementary**

Teacher: **Mrs. Law**

Mentor:

Josiah LaColla **Advaith Urs**

SUNDBERGFERAR CCS

Design Concept:

The overall concept of our design is a pollution picker upper that picks up pollution, and you can learn about all the fish that come by the pod. There are sofas so you can relax and watch the fish go by, there is a first aid kit just in case, there is a screen guide that teaches kids about the fish. There is also a leaderboard for how much trash you can pick up.

Pollution Pod

Seating for 6, able to sleep 4;

Gamify collecting trash- connect to nearby Pollution Pods and compete!

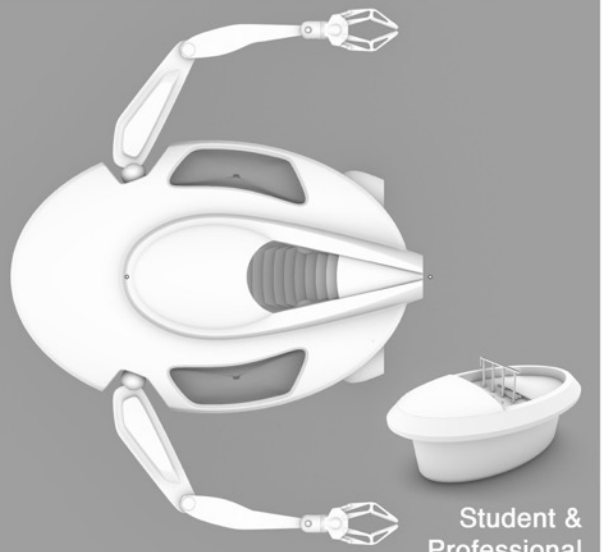
Fish and Plant identifier learning display;

Digital Tour-Guide

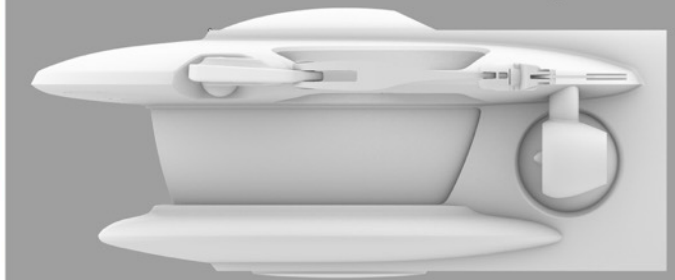
Each pod is equipped with stacks of collection nets that return to shore when full;

Dual Omni-pods for maneuverability;

Glass-bottom for precise trash collection;



Student & Professional design models



3rd – 5th Grade Category

SILVER AWARD

Alaina Feller | Grace Dalman | Rosie Evenhouse | Anna Theobald

“The "Great Waves" monthly subscription box”

School: **Lakewood Elementary**

Teacher: **Mrs. Wollenzier**

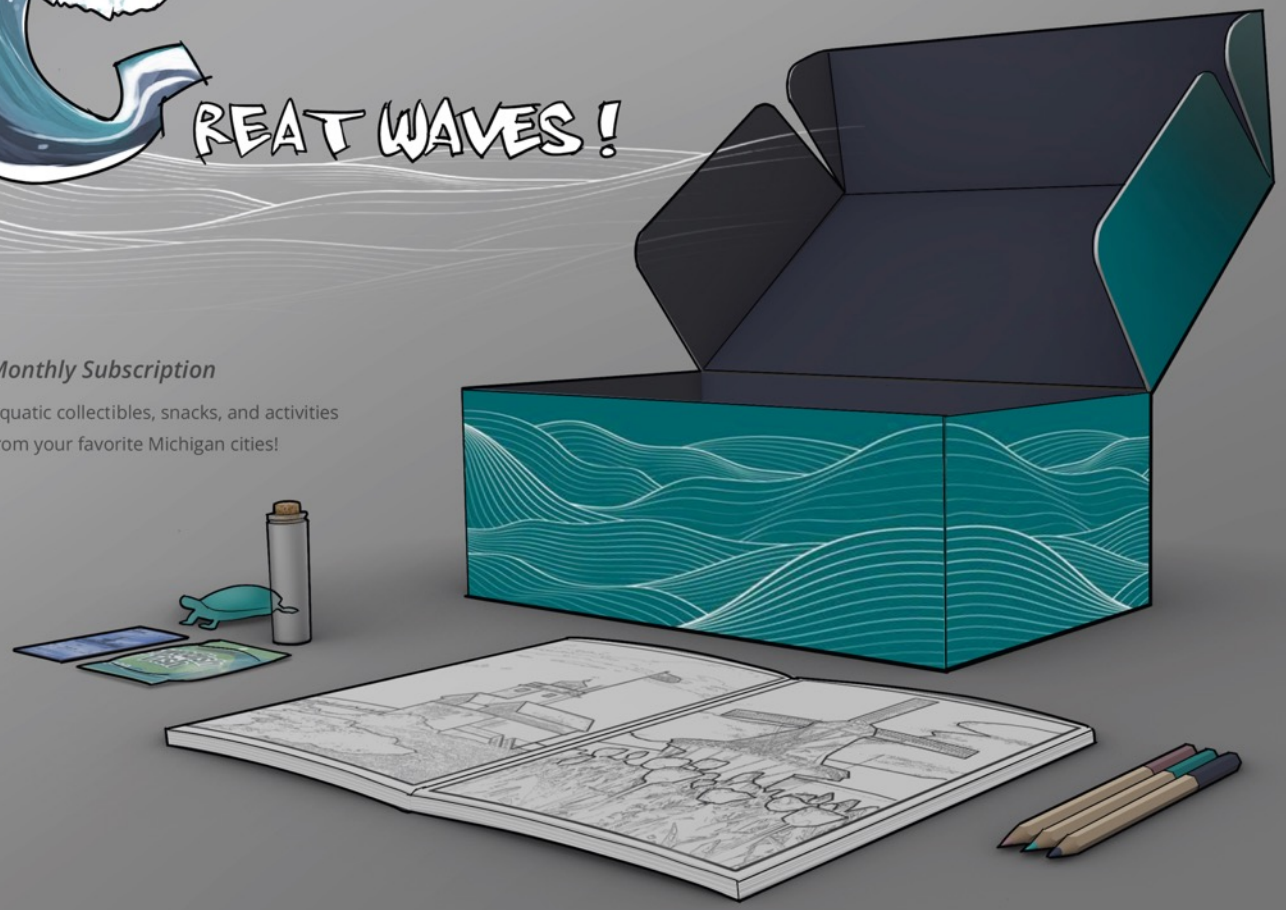
Design Concept:

The overall concept is for students K-12 to receive a monthly "Great Waves" subscription box filled with items/coupons from community sponsors that will showcase the water resources in a city in Michigan. The box and items will encourage and spark interest for students to want to visit the locations.

Simon Warnos

Mentor: **Devon Neal-Meriwether**

GREAT WAVES!



Monthly Subscription

Aquatic collectibles, snacks, and activities from your favorite Michigan cities!

Interactive Map

Pin your destinations, collect trading cards, and showcase sand and rocks from each location!


Great Waves

3rd – 5th Grade Category

GOLD AWARD

Dylan Roelofs

Milani Keely

Nora Plaggemeyer

Sophia Reed

Design Concept:

Our product gives our Autistic community members a chance to have the blessings we have when in the water. And that is truly an amazing gift. The super support suit is fun, incredibly safe and life changing. “Super support suit. Support yourself safely.” It is a vest/suit attached to a swim ring so the student has no risk of drowning and can play safely in the water while being monitored easily by parents along the shoreline of Michigan lakes.

“Super Support Suit”

School: **Lakewood Elementary**

Teacher: **Amy Van Allsburg**

Mentor:

Ryan Featherstone. tekna.

John Lightbody CCS

SUPER SUPPORT SUIT

Throughout our research, we found children with Autism connect with water on a deep emotional level. This life vest / suit is designed for children with Autism, so they can support themselves safely in the water while having FUN! Textured surfaces also allows users to calm themselves while using our SUPER SUPPORT SUIT!

REAR VIEW
Name tag for child information, rear handle for parent control.

heart and O2 sensor. Parents can monitor child information via bluetooth.

textured chew toy for anxiety relief

textured interactive buttons.
J = Jump, S = Spin SP = Splash

speaker for parents to speak to child and interact with them while playing

6th – 8th Grade Category

BRONZE AWARD

Salim Sarmoum

"The Motono Jet Ski"

School: **Washtenaw Intl Middle Academy**

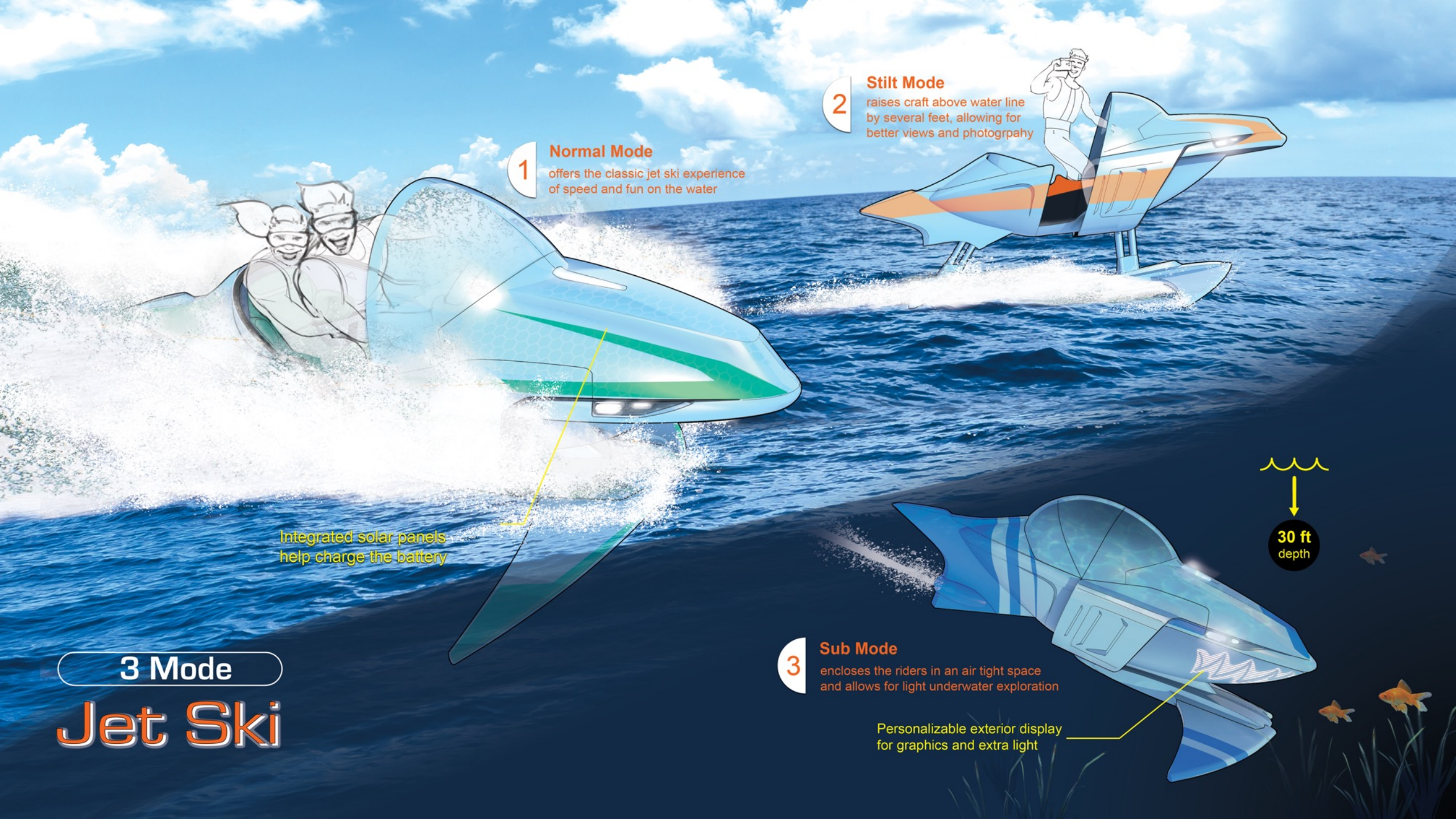
Educator: **Tammy Church**

Mentor: **Arthur Brown**

Continental

Design Concept:

My design's use of my jet ski is made for general enjoyment and photography and exploring without worries. My design is also made to help explorers for an easier and safer experience under and above water.


1
Normal Mode
offers the classic jet ski experience
of speed and fun on the water
2
Stilt Mode
raises craft above water line
by several feet, allowing for
better views and photogrpahy
Integrated solar panels
help charge the battery
30 ft
depth
3
Sub Mode
encloses the riders in an air tight space
and allows for light underwater exploration
Personalizable exterior display
for graphics and extra light
3 Mode
Jet Ski

6th – 8th Grade Category

SILVER AWARD

Patrick Alt

"The Manta Glider"

School: **Washtenaw International Middle Academy**

Teacher: **Tammy Church**

Mentor:

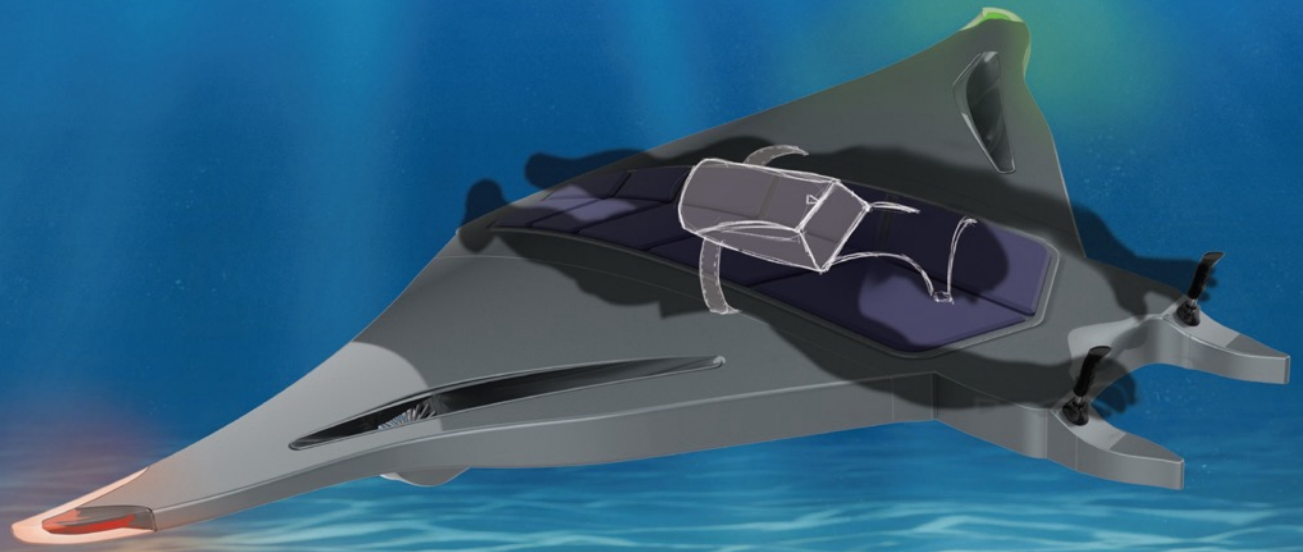
Matt McPhail **Quinn Fitzpatrick**

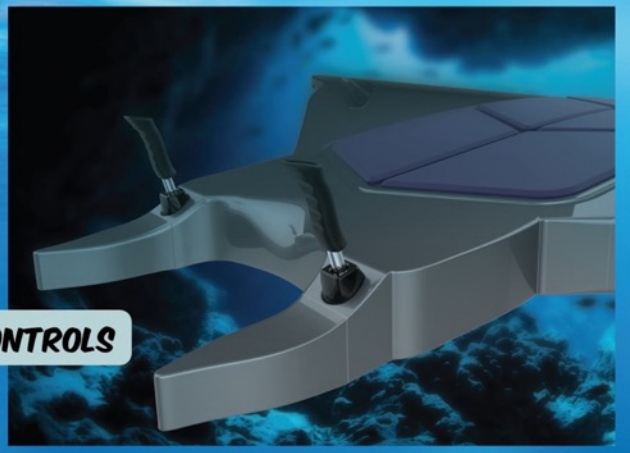
Design Concept:

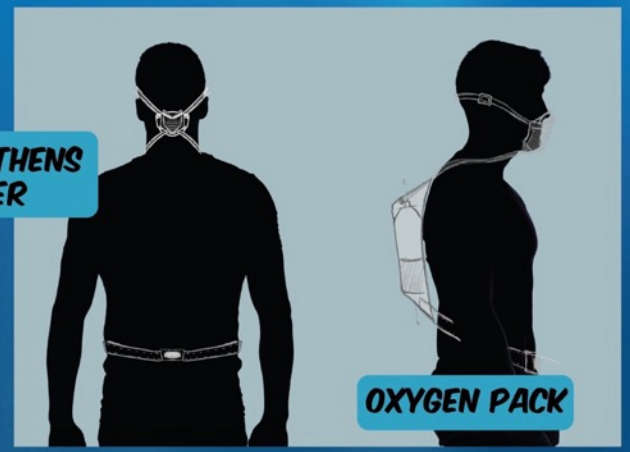
There are 3 main parts of my invention: the glider, charging port and the breathing apparatus. The charging port is powered by solar power and floats in the water. You lay across the back of the glider and straps go across your ankles and waist to secure you to the glider. Grab the handles and tilt them to speed up and tilt your body to steer.

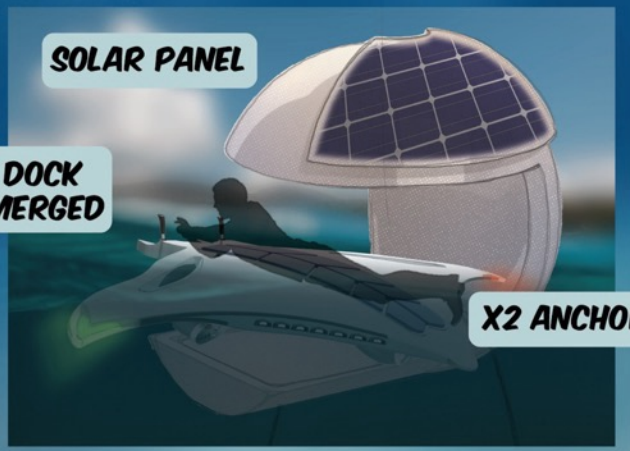
NEPTUNE'S WING GLIDER

AN UNDERWATER MOBILITY GLIDER THAT ENABLES LONG-DISTANCE TRAVEL, PLAY, AND EXPLORATION









PATRICK ALT
M-PRIZE 2023

6th – 8th Grade Category

GOLD AWARD

Antonio Prando

“Build-A-Boat”

School: **Birmingham Covington School**

Teacher: **Mr. Jason Hill**

Mentor:

Matt Marrocco — HARMAN

Mariah Mullins — CCS

Design Concept:

The concept would be a safe, home built small boat a bored child could customize, build and bring to the Michigan waters and have a blast using them, playing with others or having a fun time on their own. The boat would be petal powered with the assistance of two small electrical motors.

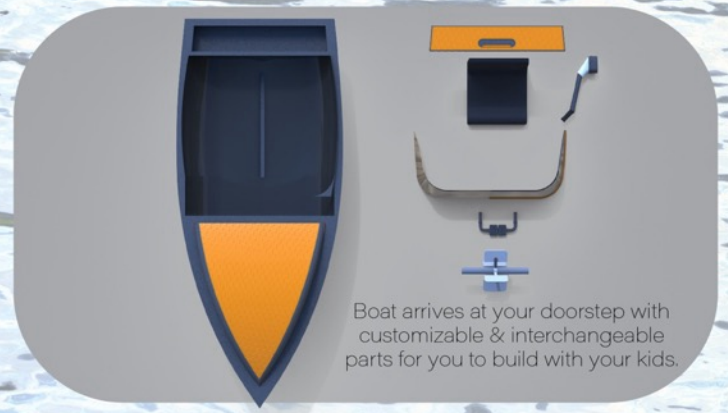
Build a Boat

With the build a boat kit, Children can unleash their creativity and problem solving skills as they assemble and customize their very own boat.

Control boat with steering stick.

Default paddle boat pedals for smaller kids.

Can be upgraded to automatic.



Boat arrives at your doorstep with customizable & interchangeable parts for you to build with your kids.

9th – 12th Grade Category

BRONZE AWARD

Nathan Richer
Kimberly Jewett

"Life Saving Drone"

School: **Branch Area Career Centers**

Educator: **Marvin Gage**

Mentor:
Evan Carpenter-Crawford

SUNDBERGFERAR

Kaan Gunel

CCS

Design Concept:

The Life Saving Drone is a piece of water survival equipment which combines current drone technology along with military technology to create a drone that can deliver a flotation device and rescue cable to a swimmer caught in a rip current. The piece of equipment has been designed to be simple to use, with a short learning curve.

Lifesaving Drone

Drone Guiding Binoculars

Drone Docking Station

9th – 12th Grade Category

SILVER AWARD

Gjon Lulgjuraj
Sierra Savage

“Adventure Park”

School: **Adlai Stevenson High School**

Educator: **Mark Lacombe**

Mentors:

David Byron
SUNDBERGFERAR

Edem Eminov
CCS

Design Concept:

The overall concept of our design is to create a water-based hand out place that is specifically tailored to the needs and interests of teenagers. We wanted to create an environment where teenagers could have fun, socialize with others their own age, and engage in a range of water-based activities.


Adventure
Park


Adventure
Park
F.EMINOV

9th – 12th Grade Category

GOLD AWARD

Meghan Landino

“The Binoggles”

School: **Adlai Stevenson High School**

Educator: **Mark Lacombe**

Mentor:

Steve Schock **Sean Cannizzaro**

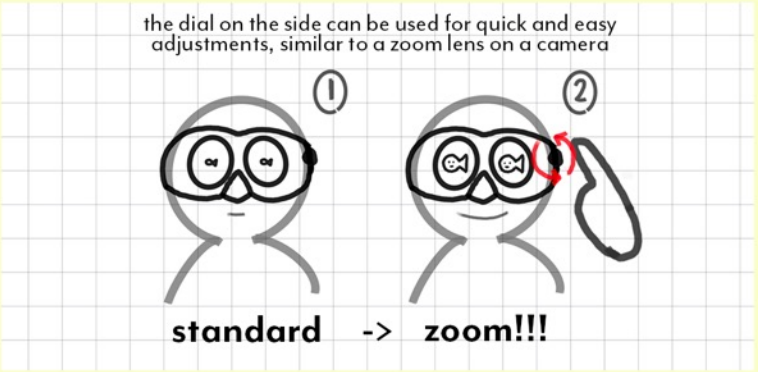
CCS

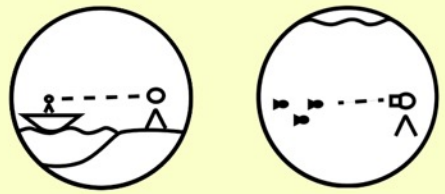
Design Concept:

The overall concept of my design is goggles with adjustable zoomed lenses with the main purpose of allowing the user to see more of the Great Lakes' wildlife, boats, kayaks, etc. While prioritizing their safety and convenience.

binoggles

binoggles are the underwater goggles with a binocular lens function that let you experience underwater wildlife from far distances!





observe the great lakes **above and below** the surface!