



# MD 2022 DESIGN PRIZE

The Michigan Design Prize  
2022 AWARDS CEREMONY



Michigan  
Design  
Council

## ***BRONZE AWARD***



**Kylie Lindsley**



**Rylan Schutter**



**Brea Geurink**



**Luke Brower**



**Paityn Breuker**



**Piper Adamson**

## ***“Krazy Kourse”***

School: **Bentheim Elementary**

Teachers: **Ashley Meyer and  
Melinda Bronkhorst**

Mentor: **Pro: Connor Riegle**



**Morgan Murphy**

### **Design Concept:**

Our idea is an obstacle course. The order is Hurdles and Parcore, Cargo net, Big slide, Monkey bars, Trampoline, Zipline, Braided ropes, and a rock wall. When done you hit a buzzer. There is a ball pit under some obstacles. There is also a course for those with physical limitations.



**Race your friends in the  
Krazy Kourse obstacle course!  
Wheelchair accessible,  
all of your friends  
can play!**



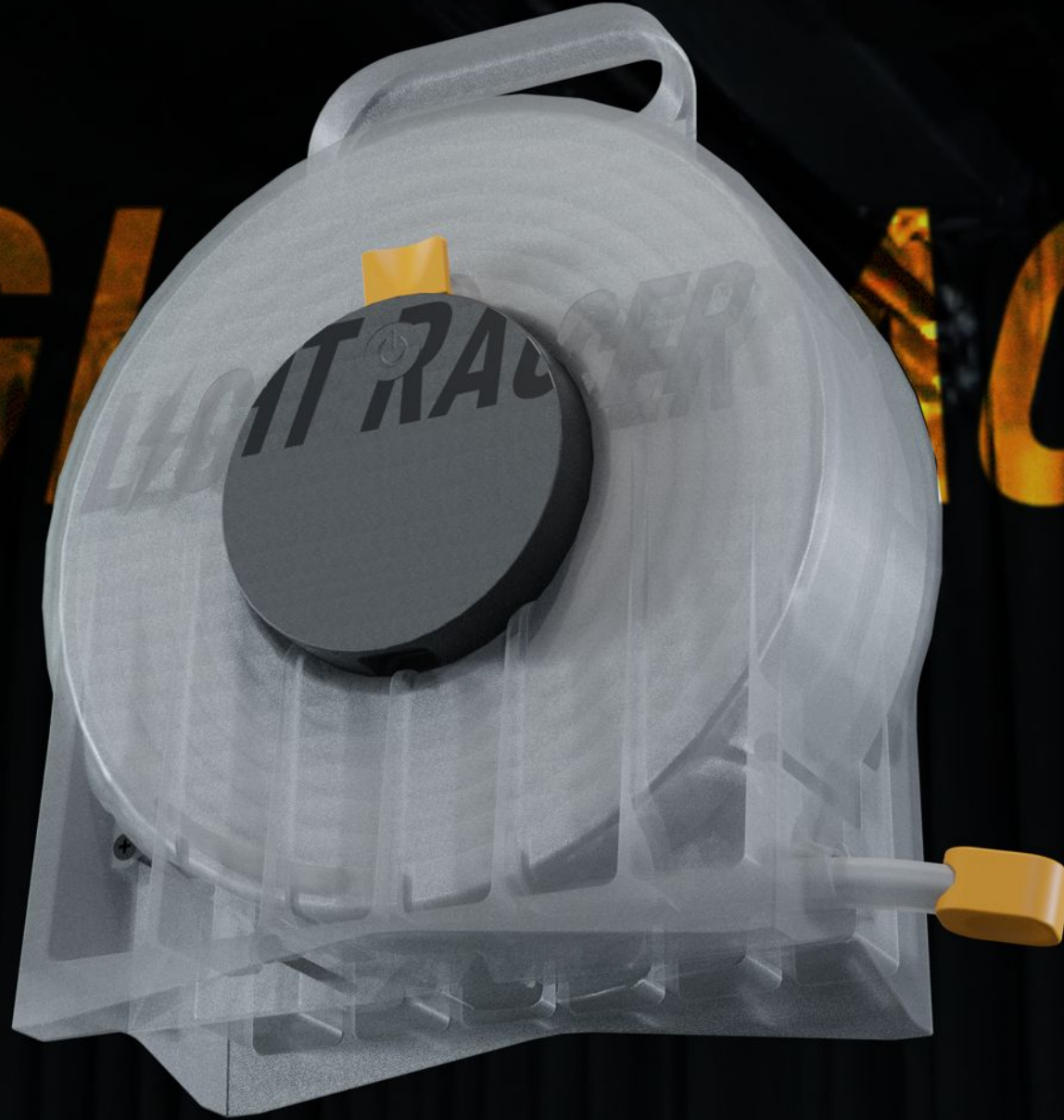
**Krazy  
Kourse**



***SILVER AWARD*****Rowan Peart*****“The Light Racer”*****School: Spencer Elementary****Teacher: Gillian McColgan****Mentor: Pro: Drew Lark****Jeffery Chang****Design Concept:**

This product is designed to make exercise fun again! It can be used anywhere, by anyone! Roll out the Light Racer tape on any surface, step on it to start your race! Race the light and step on it again to stop it. It displays your time and speed.

# LIGHTRACER



## COMPETITIVE BENCHMARKING LIGHT STRIP RACER.

A portable easy to use light strip racer to make exercise fun again. Pull out the light strip, place the pucks at either end, and choose to race against yourself or friends on the LIGHTRACER app.



***GOLD AWARD*****Paul Hilarides****Keyona Hawkin****Kaylinn DeWitt****Izzy Gitler****Colten Van Dellen****Caroline Honey****Bristol DeVries****Blake Theobald****Sadie Vellinga*****“Air-WO-Bic Shoe Calendar”*****School: Lakewood Elementary****Educators: Denise Smyk &  
Amy VanAllsburg****Mentor: Pro: Jonah Griffith****Edem Eminov****Design Concept:**

Use Air-WO-Bic, a brightly colored shoe calendar which includes a variety of daily exercises, pockets with puzzle pieces that build motivating monthly quotes, and surprise prizes—all under reusable stickers. Enjoy the different levels of exercises that you can switch around according to your plans. GET FIT!



Each shoelace contains  
a puzzle piece



# AIR-WO-BIC

## THE SHOE CALENDAR

Flip the magnetic  
"BICS"  
to reveal new  
exercises each  
day



Collect all puzzle pieces to  
put together a motivational  
quote

## **BRONZE AWARD**

**Julia Oliveira  
de Paula Eduardo**



## **“Ice Party Boot”**

School: **Spencer Elementary**

Teacher: **Marina Oliveira**

Mentors: **Pro: Matthew McPhail  
Shauryavratt Kapoor &  
Francis Bazil**



### **Design Concept:**

The Ice Party Boot is made for walking safely on a frozen lake. It has a sensor to indicate if it's thick enough and has colorful lights and music for Party time mode.







**SILVER AWARD****Mackenzie Bossary*****“The Watch for Waves”***

School: **Home Education**

Teacher: **Lianna Bossory**

Mentor: **Pro: Evan Crawford**

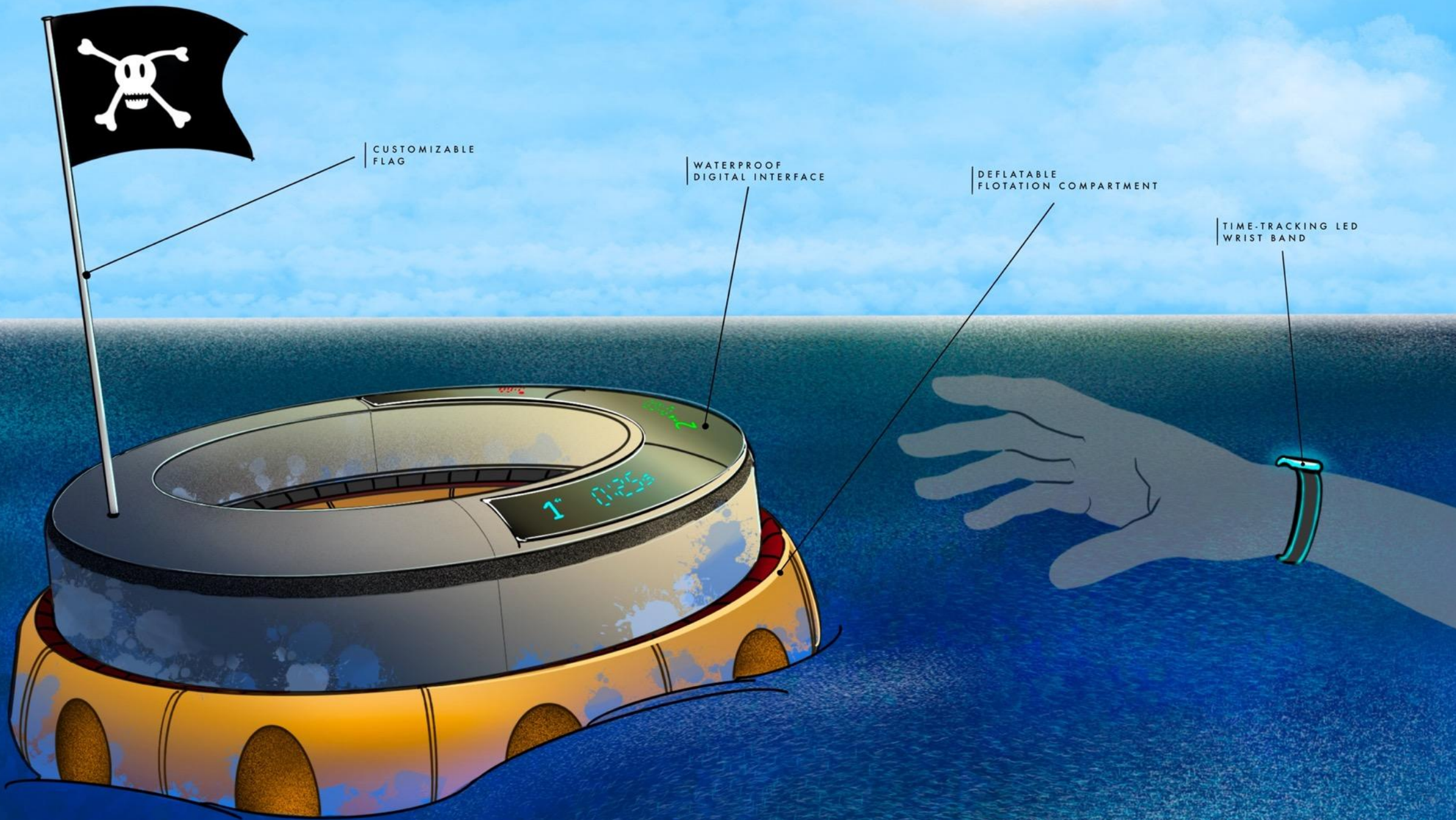


**Cole Williams**

**Design Concept:**

I designed waterproof watches that can sync up to buoys in the water so that swimmers can play a water relay race. A judge gives challenges by sending voice messages through the watches. A challenge is complete when a swimmer reaches a buoy and the buoy scans their watch.





CUSTOMIZABLE  
FLAG

WATERPROOF  
DIGITAL INTERFACE

DEFLATABLE  
FLOTATION COMPARTMENT

TIME-TRACKING LED  
WRIST BAND



***GOLD AWARD*****Willow Arens*****“Rainbow Rockwall Treadmill”***School: **Roosevelt Elementary**Teacher: **Lianna Bossory**Mentor: **Pro: Matt Marrocco****Isabella Hadous****Design Concept:**

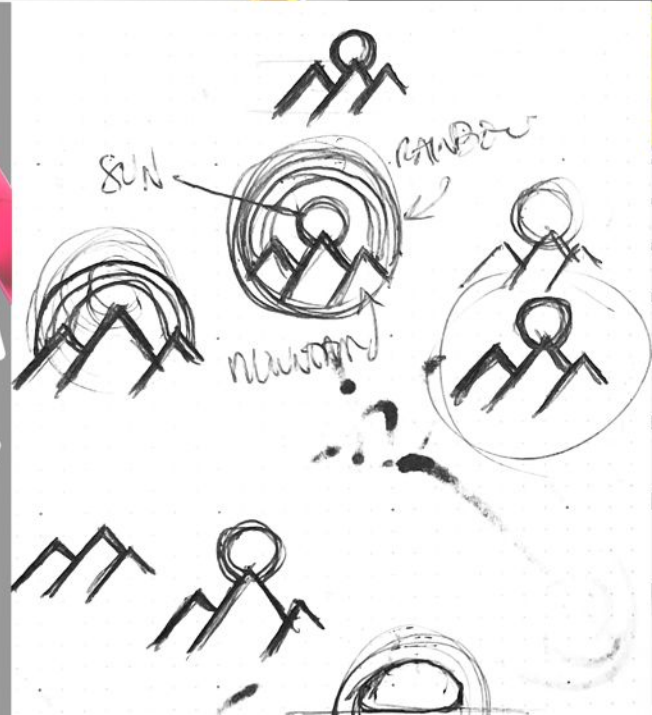
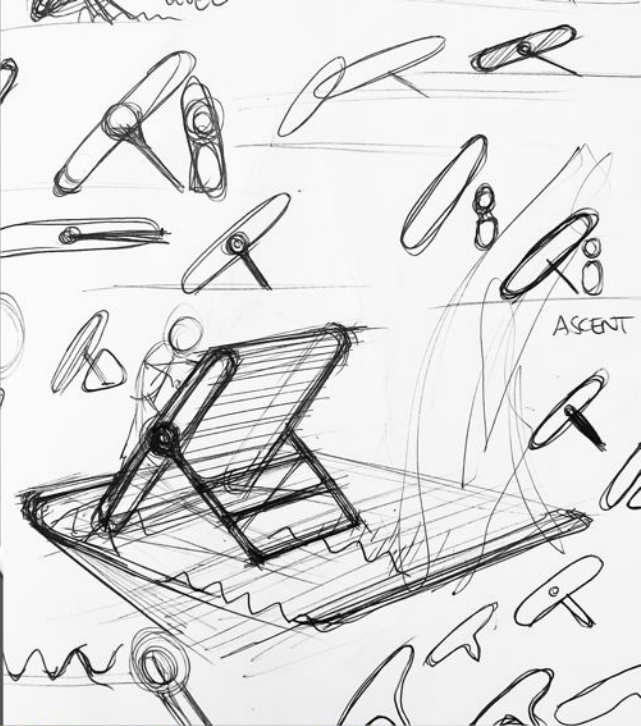
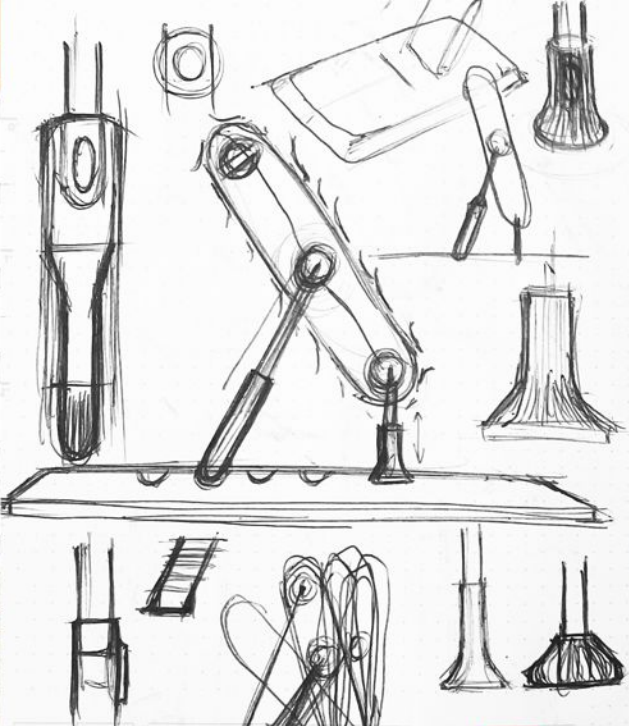
A rock wall that moves up and down like a treadmill. The course lights up the path with rainbow colors. You can race your friends online and share the courses you like to do.



## Rock Wall Treadmill









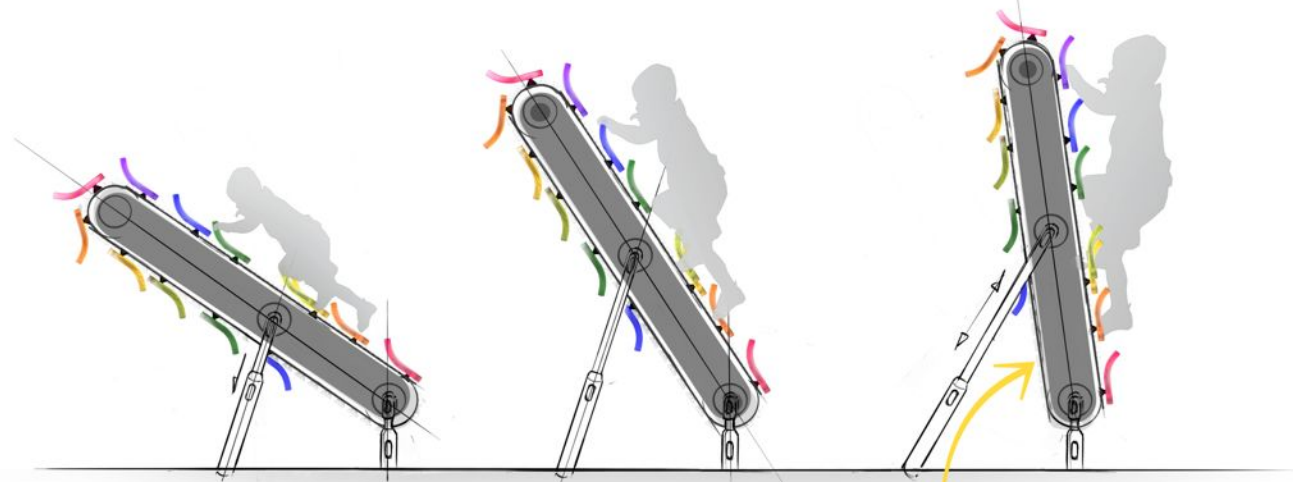
# Rainbow Rockwall Treadmill



EASY

MODERATE

DIFFICULT

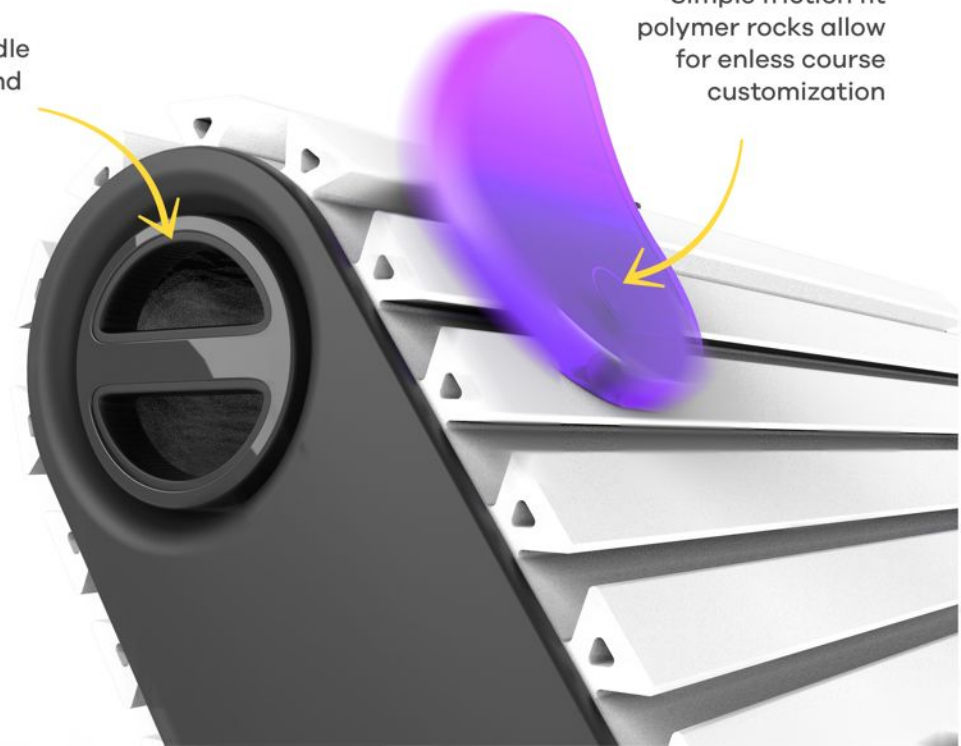


Adjustable frame allows for continued use through childhood

Integrated grip handle  
assists in stowing and  
adjusting the unit

Extruded rubber belt is  
durable and the textured  
finish provides traction

Simple friction fit  
polymer rocks allow  
for endless course  
customization





***BRONZE AWARD*****Bailey Loiselle*****“Fun in the Sun”***School: **Maltby Intermediate**Educator: **Catherine Wagner**Mentors: **Pro: Josiah LaColla****Morgan Murphy****Design Concept:**

Imagine a park or yard in the summer. Instead of wood chips, it's a flat surface with drains and sprinklers. go and play, choose a pattern the sprinklers spray. You run and play, chasing after the sprinklers. Instead of water building up, it drains. There is also a leader board.





Log in to the kiosk to start playing!

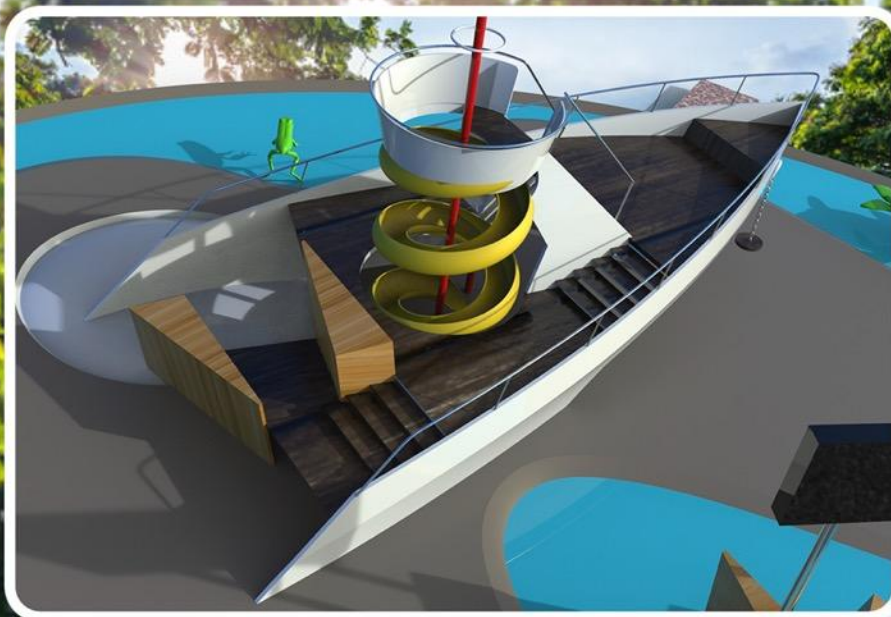
Ready to win?

Leader board tracks progress

#### LEADER BOARD

Player 1	██████████
Player 2	██████████
Player 3	██████████
Player 4	██████████



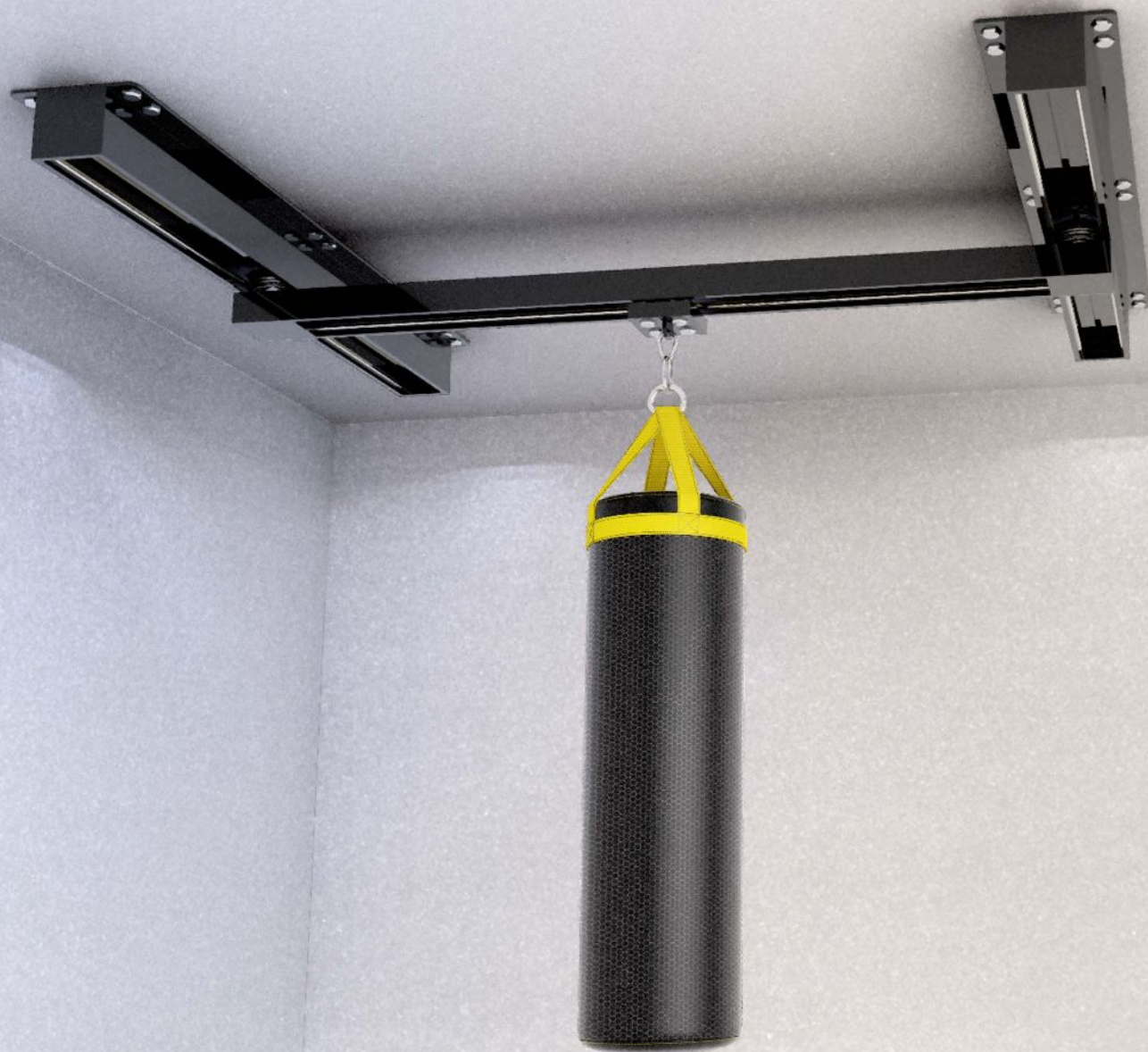




**SILVER AWARD****Kaisa Stone-Palmquist*****“The Moving Punching Bag”*****School: Washtenaw International  
Middle Academy****Educator: Tammy Church****Mentor: Pro: Adam Paquette****Carla Langfeldt****Design Concept:**

My concept is a moving punching bag. This product works by attaching a punching bag to a small motor and the pulley is attached to the axis to move. This product gives a full body workout that improves reflexes, cardio performance, muscle growth, has greater difficulty, and decreases anger.





THE  
MOVING  
PUNCHING  
BAG.

***GOLD AWARD*****Preston Wilson*****“Exercise-To-Order”***School: **Maltby Intermediate**Teacher: **Mrs. Catherine Wagner**Mentor: **Pro: Arthur Brown****Wyeth Tocco****Design Concept:**

My design helps keep people from getting bored with their traditional playground equipment. It does this by completely changing its sole purpose along with the user's wants. This will get the people of Michigan who don't like traditional playground equipment (or who liked it, but it has gotten boring).



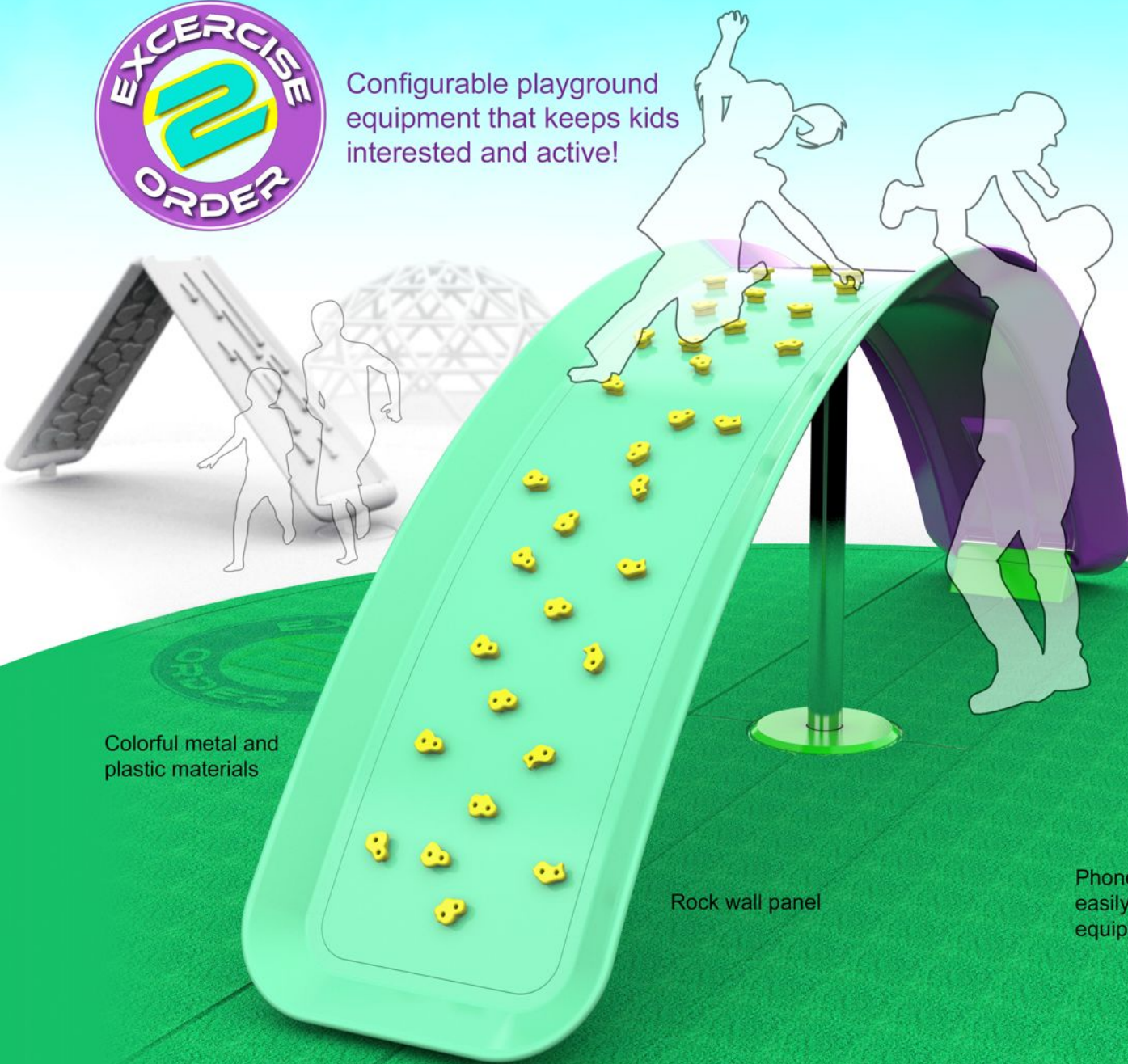
*EXERCISE-TO-ORDER*





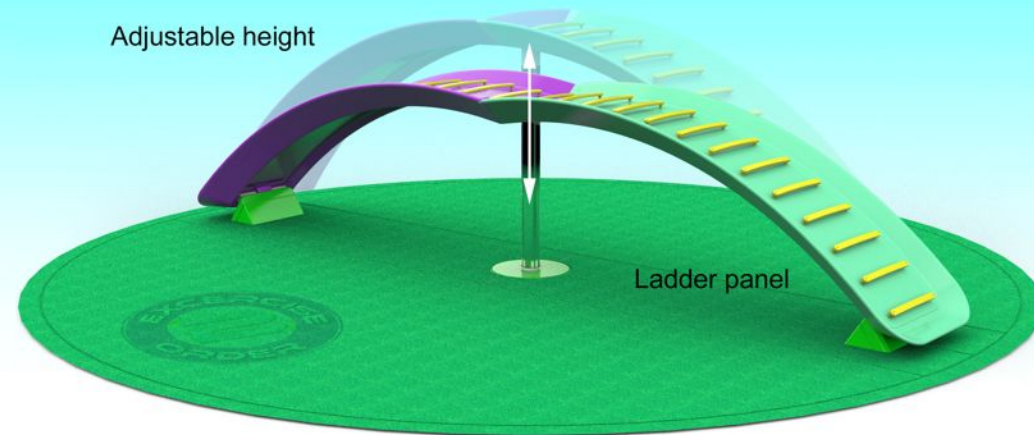


Configurable playground equipment that keeps kids interested and active!

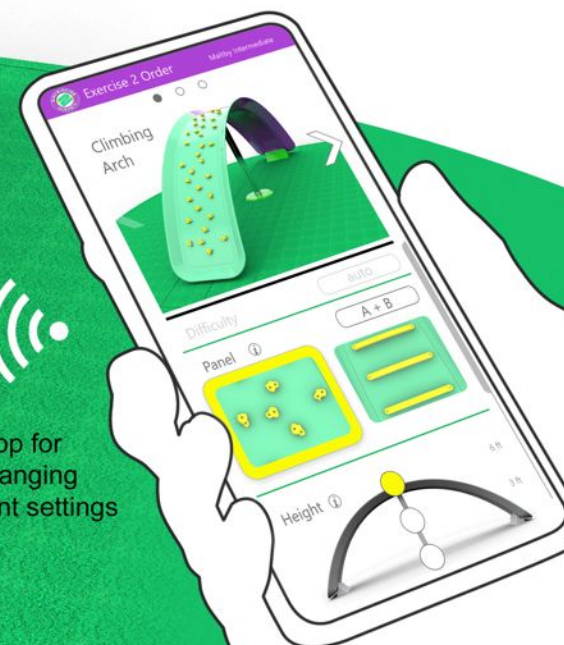
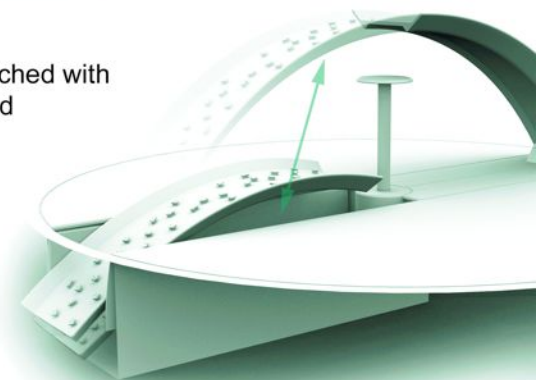


Colorful metal and plastic materials

Rock wall panel



Climbing panels are switched with those stored underground



Phone app for easily changing equipment settings



***BRONZE AWARD*****Nathan DeFillippo****Emanuel Jabow****Alessandro Bally****Christopher Douthet*****“The Scoot-Scoot”***

School: **Adlai Stevenson High School**

Educator: **Mark Lacombe**

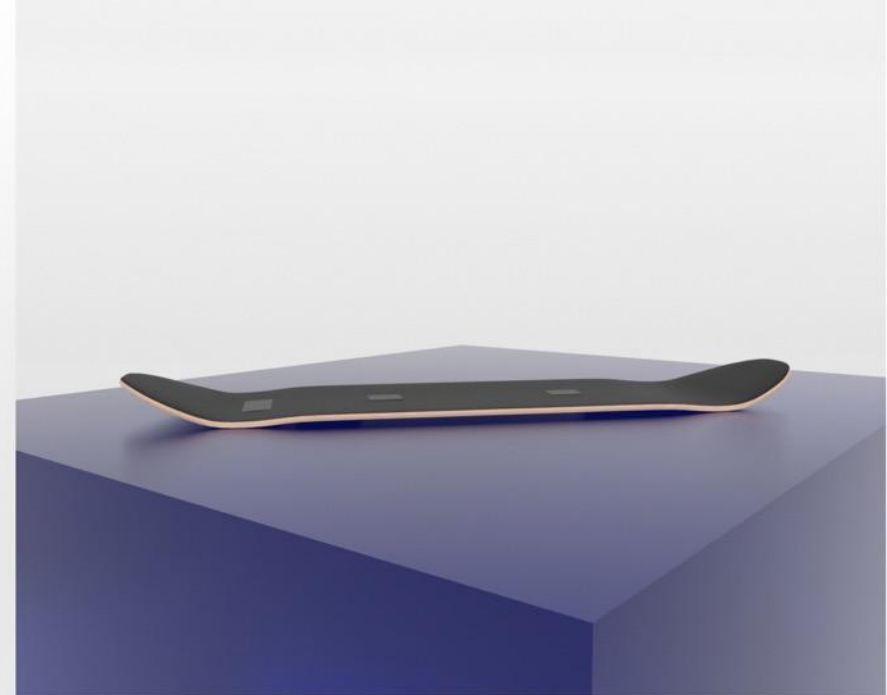
Mentor: **Pro: David Byron**



**Achsah Tom**

**Design Concept:**

The Scoot-Scoot is a multifunctional skateboard. You can use it for skating, snowboarding, or as a scooter! This works with detachable wheels, handlebars, and snowboard cover. Download Scoot-Scoot mobile and join a community where you can learn from tutorials, interact with people’s videos, and upload your own!





**SILVER AWARD*****“Inside Recess Activity”***School: **Branch Area Careers Center**Educator: **Marvin Gage**Mentors: **Pros:****tekna.** **Tony De Leo &  
Kyle Spieker****Caleb  
Jones****Brianna  
Omo****Steven  
Covell****Design Concept:**

The Inside Recess Activity [I.R.A] is an exercise toy that encourages teamwork and equality in the classroom. The design concept allows all children to participate, regardless of physical disabilities, which is the guiding principle of our project. Furthermore, this classroom toy builds community and a sense of belonging.



Fun,  
Engaging, &  
Interactive

Teamwork &  
Building  
Community

Personalization  
& Individualism

Inclusive for  
Everyone





## Interactive Light

LED interactive light lights up sequentially with more rotations. When the peak goal is reached the top LED spotlight spins and lights up.



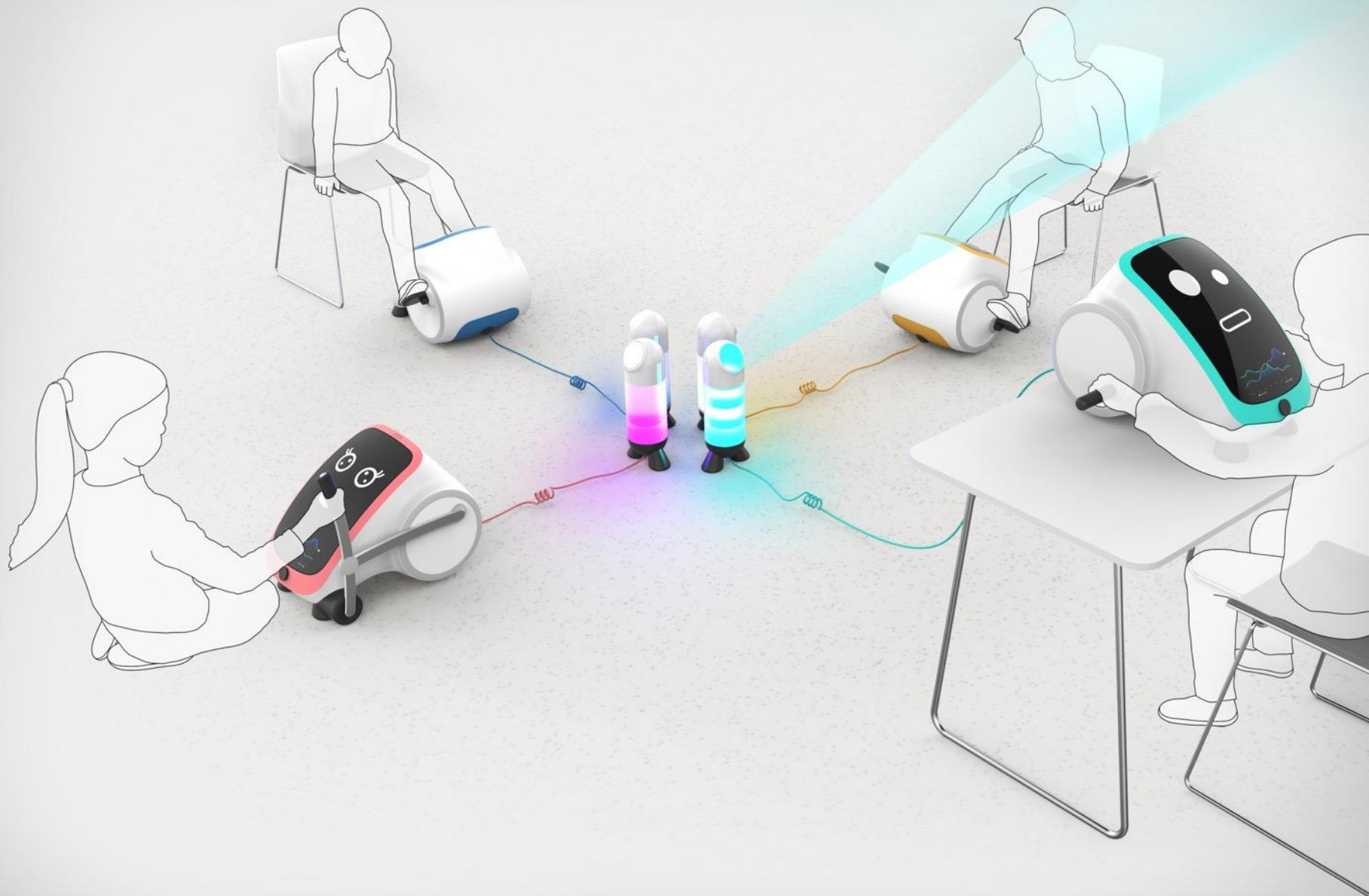
## Custom Emoji's

Personalized fun keeps kids engaged. The tension adjustments knob makes for fair play.



## Everyone can play

Multiple attachments allow play for all life's challenges (Rotary, Linear)



***GOLD AWARD*****Zachary Balckmer Landon Lawrence****John Sunday****Trenton Brown*****“The Lumber Yard”***

School: **Adlai Stevenson High School**

Educator: **Jesse Lombardo**

Mentor: **Pro: Austin Clark**



**Wen Chen**

**Design Concept:**

The Lumber Yard is the next hit playground for elementary schoolers to enjoy. This playground has all your favorite things, like trees to climb on, a zipline, a rope bridge, swings, and even a foam pit. You will be having so much fun you will never want to leave!





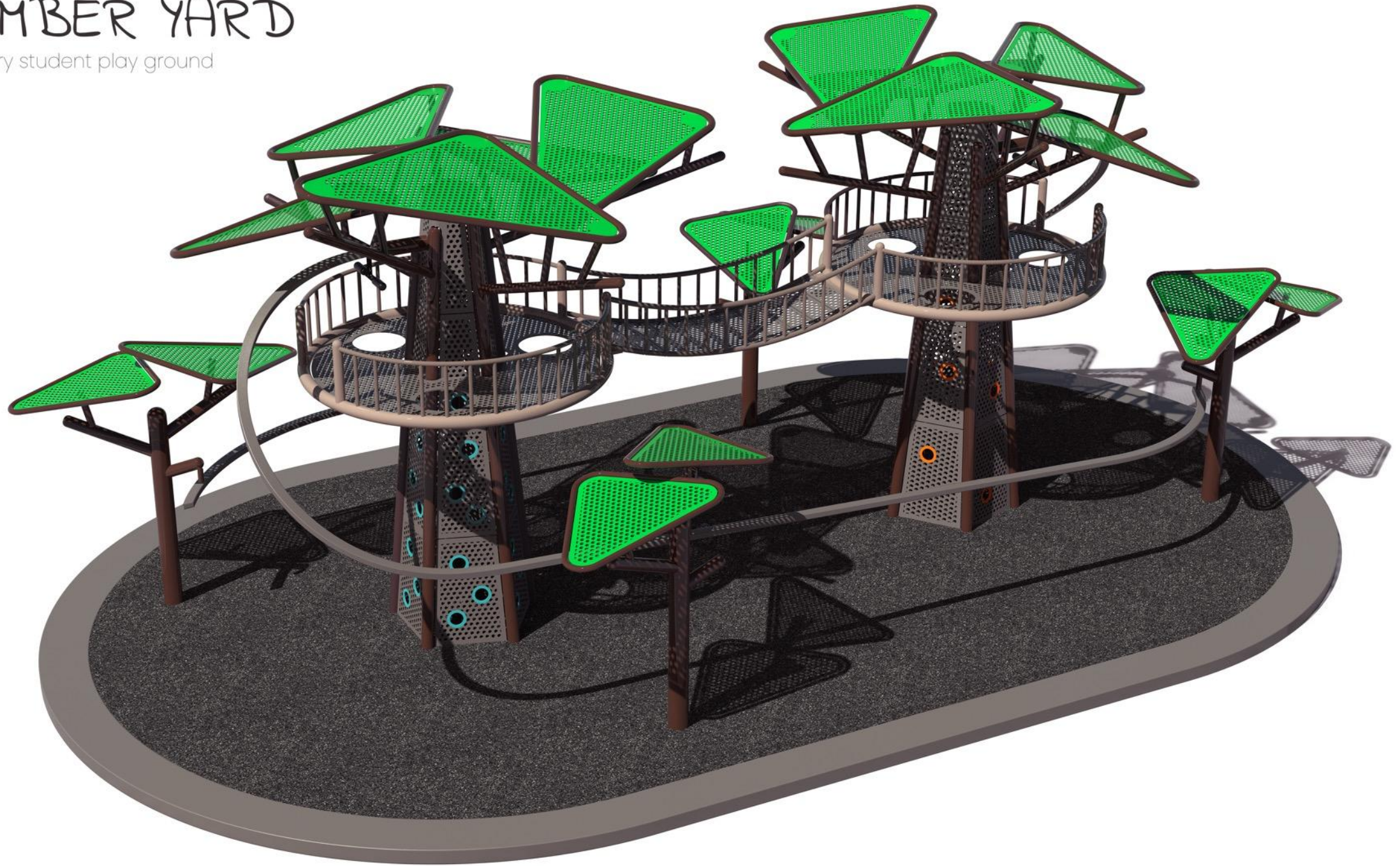
THE

LUMBER YARD



# THE LUMBER YARD

elementary student play ground







## 2023 Michigan Design Prize Challenge:

**Design a physical product that promotes the enjoyment of Michigan's lakes, rivers, and water parks.**

**Design solutions must focus on the needs and desires of K-12 youth. Areas to consider may include; learning to swim, water-sports and recreation such as boating or fishing, water survival equipment, and products to help learn about freshwater animal life.**