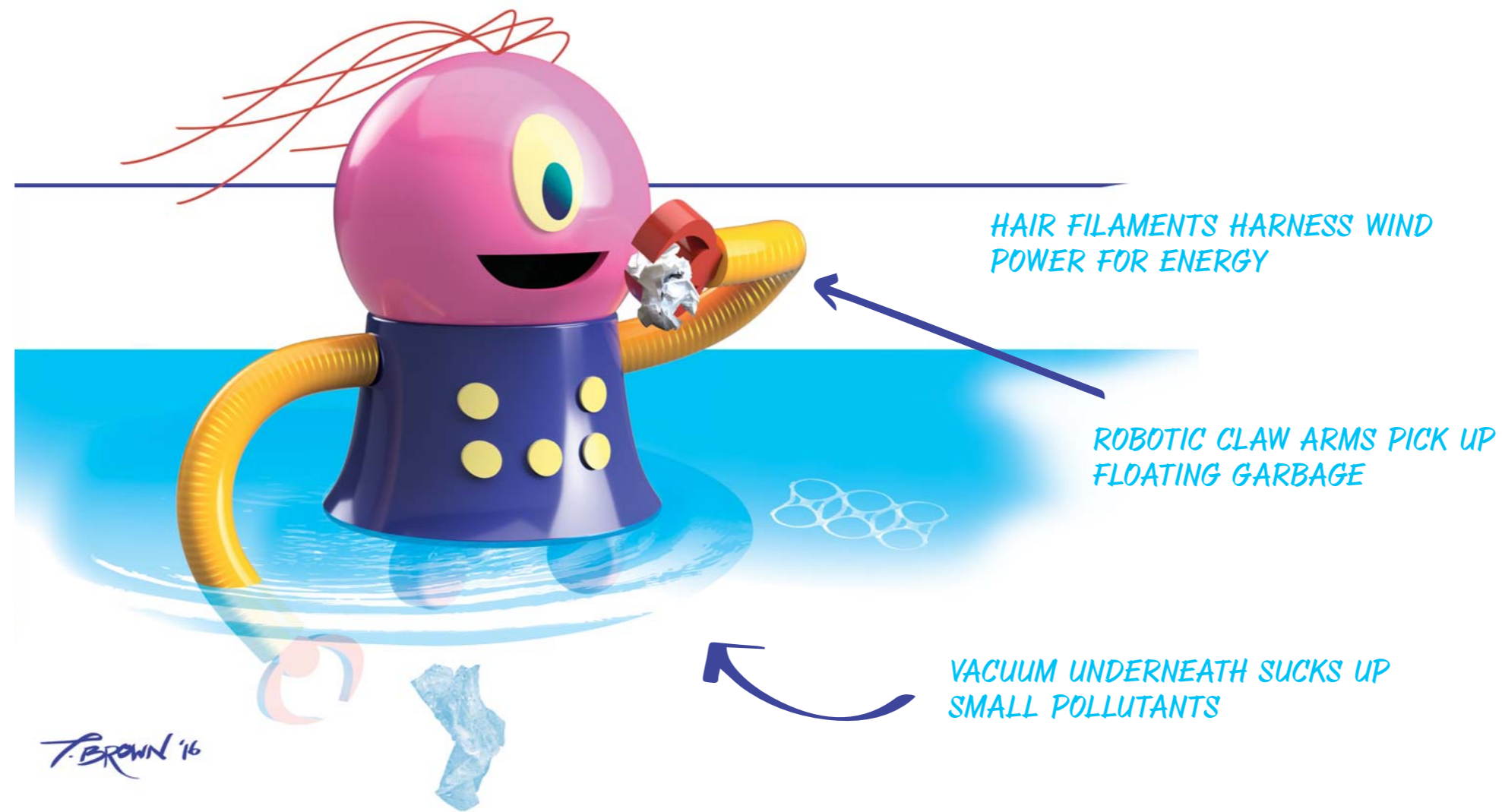


**INDUSTRIAL DESIGN CONCEPT**

CONCEPT NAME:

**THE TRASH TRAPPER**

COMPETITION CHALLENGE: Design a physical product solution that allows people to safely enjoy the benefits of Michigan's diverse water resources.



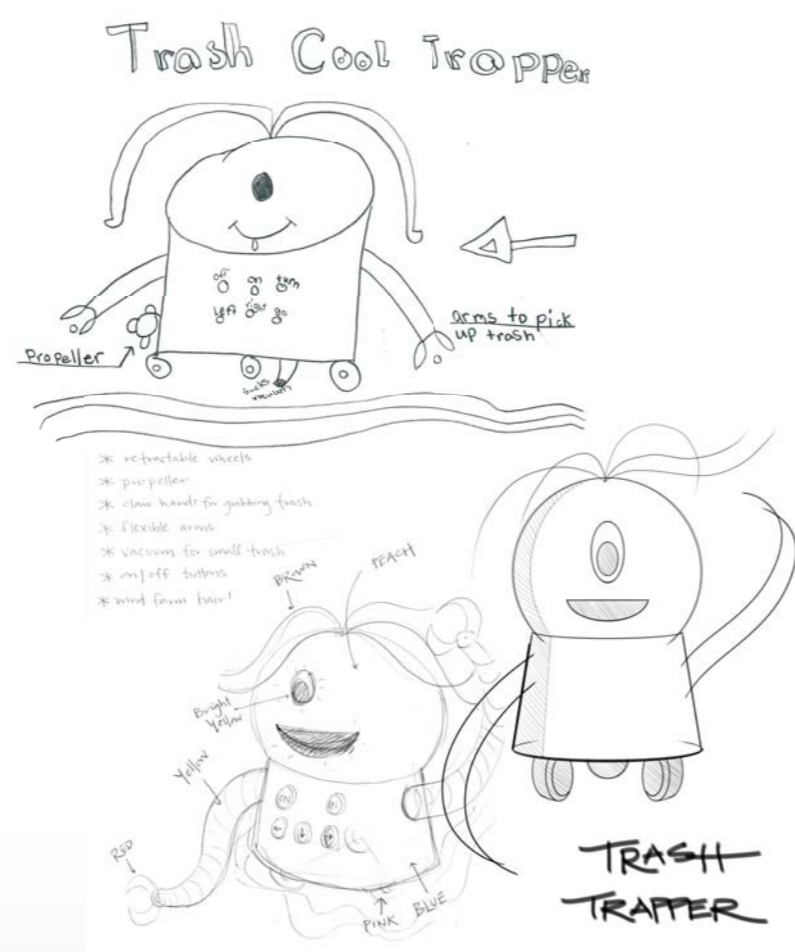
**CONCEPT DESCRIPTION**

The Trash Trapper was designed to make our Great Lakes cleaner and safer for everyone to enjoy. This product is intended for beach-goers and people who have cottages on the lakes. The Trash Trapper keeps our lakes clean and enhances the beauty of the environment by picking up trash and sucking up debris with a water vacuum. It is powered by the wind with sensitive hair filaments that store energy within the Trash Trapper.

I used the industrial design process in my class to develop the Trash Trapper idea. I researched Michigan's water quality and the Great Lakes. Then, I imagined and conceptualized a tool to clean our water. My class collaborated with me on the idea to make improvements, and then I drew the design. I went through this step several times to make my design better- until I was satisfied.

The target user and market for this product is anyone who is concerned about water quality, and especially for people who own lake property, and for people who use Michigan's beaches. I think the playful quality of the design will appeal to kids my age who want our water to be clean and fun to be in.

**IDEA DEVELOPMENT & MENTORING**



**FINALIST BIO**



**Alana Dallo**

SCHOOL:  
**Roosevelt Elementary,  
West Bloomfield  
School District**

AGE GROUP:  
**K -5th Grade**

**MDC EVALUATION**

JUDGE'S COMMENTS:

*"This is a clever design that could evolve into a GPS controlled, Roomba like device"*

*"The design solution could also harness solar energy as a renewable source of power"*

*"The aesthetic is refreshingly playful and would generate water quality interest among youth"*

INDUSTRY PARTNER:



[www.michigandesigncouncil.org](http://www.michigandesigncouncil.org)