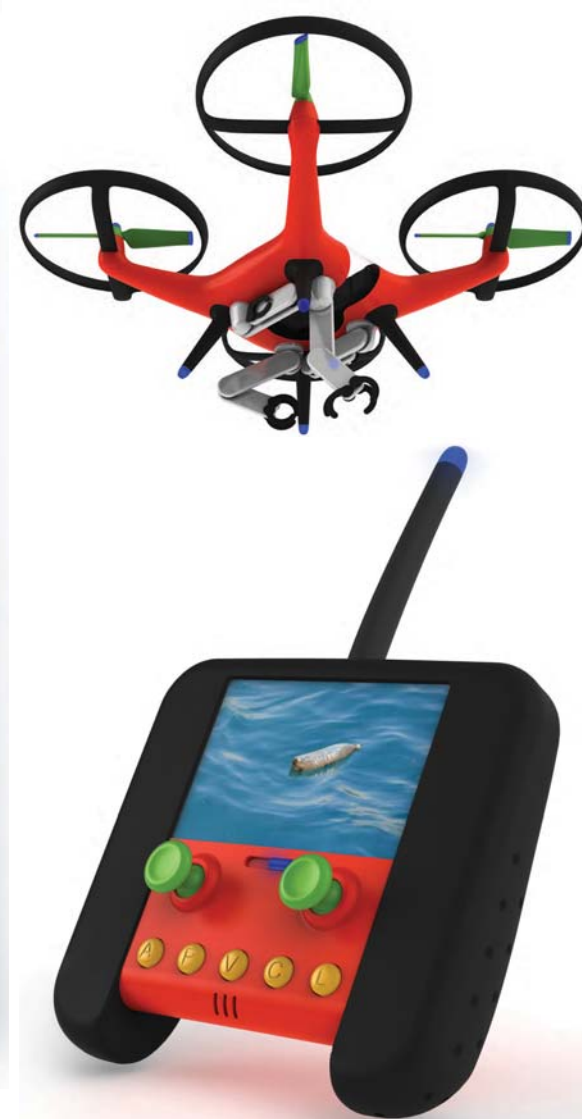


**INDUSTRIAL DESIGN CONCEPT**

CONCEPT NAME: **Trashy Drone & Remote**

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

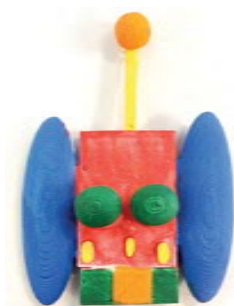
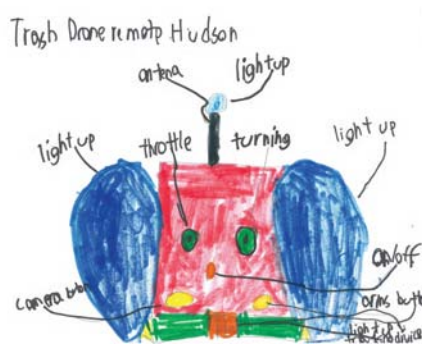
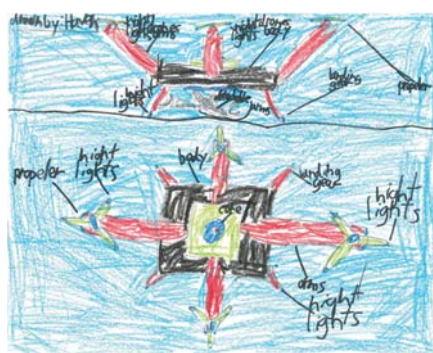


**CONCEPT DESCRIPTION**

The Trashy Drone and Remote addresses the growing problem of pollution and litter in the Great Lakes. It collects discarded material using its four retractable arms and is piloted via game controller, voice command or autopilot. The Drone can use its on-board camera vision system to spot trash and pick it up. The drone will continually retrieve and drop trash into a receptacle of choice.

The Trashy Drone and Remote makes clean-up fun with exciting colors and an aerodynamic body shape to innovate sanitation and environmental conservation. Its use of bright, highly visible colors makes it easy to see by the operator, and reminds people not to pollute Michigan's water resources.

**IDEA DEVELOPMENT & MENTORING**



**FINALIST BIO**



**Hudson Dunn  
Mahad Abbas  
Haven William  
Davis Hurley**  
SCHOOL:  
**Roosevelt Elementary,  
West Bloomfield  
School District**  
AGE GROUP:  
**K -5th Grade**

**MDC EVALUATION**

JUDGE'S COMMENTS:  
 "The finalists did a great job coordinating the design of the drone and the controller"  
 "This team really embraced sketching, hand-modeling, and rapid prototyping to visualize their ideas"  
 "The Trashy Drone and Remote concept applies drone technology in a new way- to search out and remove litter from Michigan's water-ways "

INDUSTRY PARTNER:



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