9th – 12th Grade Category

BRONZE AWARD

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"Backbrella"

School: Clinton High School

Educator: Ron Schaffner



Design Concept:

Our design can be used by anyone including the elderly or the blind to keep their hands free to use a cane or brace their fall. It allows them to enjoy national parks and makes it easy for everyone. It's a vest backpack with a button that causes a shelllike umbrella to cover them and their gear from rain or snow.

BACKBRELLA

Experience the outdoors hands-free & hassle-free

A back-mounted sunbrella, made for those who want to block out the sun without sacrificing the usage of their hands. Built-in backpack to carry water bottle, first aid, food, etc.

Reflective waterproof nylon

Spring-loaded / release mechanism

Tube connected to water bottle inside backpack

Pull to release Backbrella -

BACKBRELLA

Enjoy the wet outdoors with the HANDS FREE backbrella. A deployable umbrella that allows for a dry Michigan Adventure.

> Deployable shade keeps you and your gear dry

Button deploys umbrella shade

water accessibility

day pack for additional storage.

