

INDUSTRIAL DESIGN CONCEPT

CONCEPT NAME:

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

Saf-T



CONCEPT DESCRIPTION

In 2013 there were more than 100 boating accidents and 20 deaths; only 22% of Michigan's boaters and swimmers wore life jackets in the water that year. There could be many reasons why people don't wear a life jacket - too confident, cumbersome, etc. Our design is for a user-friendly life jacket with the look of a t-shirt. This t-shirt is thin, lightweight and made of 3 layers. The first inner layer is a wicking fabric. The second layer is where the "magic" lives. In this inner layer, there is a heart beat sensor and deflated life vest. If a dangerous situation arises and your heart beats faster, it activates the air cartridge to inflate the inner vest. Air fills the gaps in the vinyl layer, so the user is raised to the surface of the water. To manually activate the heart sensors, simply pull the small rip-cord on the top of the right shoulder. The shirt also automatically inflates after 60 seconds of complete stillness without the strap even being pulled. A light and whistle are integrated to alert others.

IDEA DEVELOPMENT & MENTORING



FINALIST BIO



**Max Somerfield
Ayden Munn**
SCHOOL:
**Surline Middle School
West Branch -Rose City
School District**
AGE GROUP:
6th - 12th Grade

MDC EVALUATION

JUDGE'S COMMENTS:

"Innovative idea! I love that this team identified a gap in the market and then developed a very marketable idea with tons of opportunity for fashion and branding applications"

"Excellent integration of technology with fashion- this could surely increase the usage rate of life saving gear"

INDUSTRY PARTNER:



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