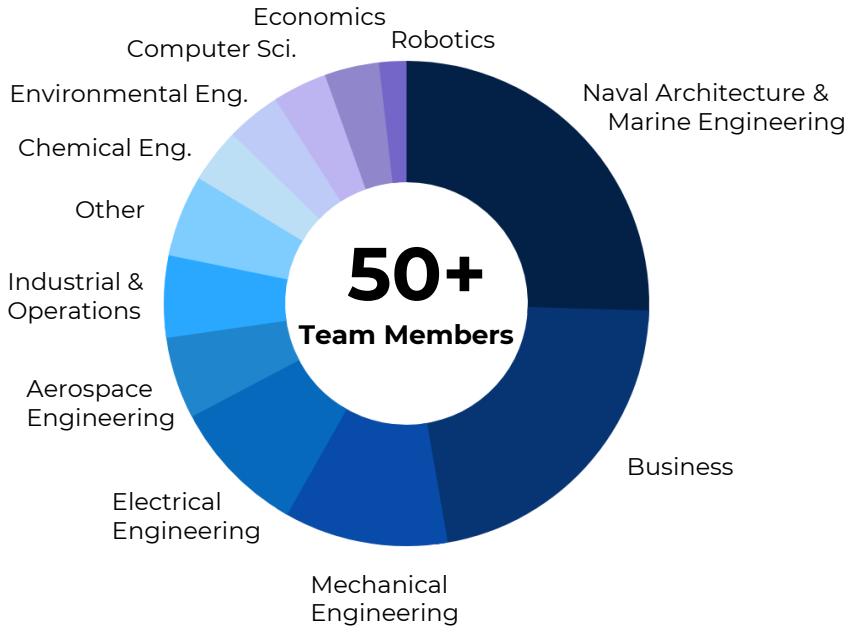
University of Michigan Electric Boat

2023-2024 Sponsorship Packet

The Team

Michigan Electric Boat was established for the purpose of advancing sustainable technology and promoting its capabilities. Our members come from all walks of life, but we all share one important purpose:

As the next generation of engineers, we challenge ourselves to implement sustainable technologies to revolutionize the boating experience.



Innovation

No idea is a bad idea. Our project gives students the opportunity to apply their theoretical skills to a real-world project.

Collaboration

Collaborative diversity is vital to our team. Our members thrive in the pursuit of varying disciplines.

Development

The complex scope of our project prepares members for industry and beyond.

Sustainability

Our vessel will be powered by electrical energy, proving its capabilities in marine applications.

Team Functionality

UMEB Sub-Teams & their Responsibilities

Engineering

Structures

Develops composite structures and metal framing

Drivetrain

Designs and sources the propulsion system from the motor to the propeller

Controls

Develops and integrates control surfaces and provides means for the driver to control the boat

Powertrain

Designs and sources the transportation of energy from the batteries to the motor

Cooling

Designs and manages temperature regulation of all powertrain components

Business

Finance

Manages the team's expenses and funding

Marketing

Develops strategies for the team to recruit new members and attract new sponsors

Strategy

Manages the interaction and communication between current sponsors

Operations

Supply Chain

Ensures parts arrive on schedule, works to attain in-kind sponsorships

Workstream

Maintains and upgrades workshop area and manages internal team function

The Michigan Difference

What UM Resources Set Us Apart?

The Wilson Center

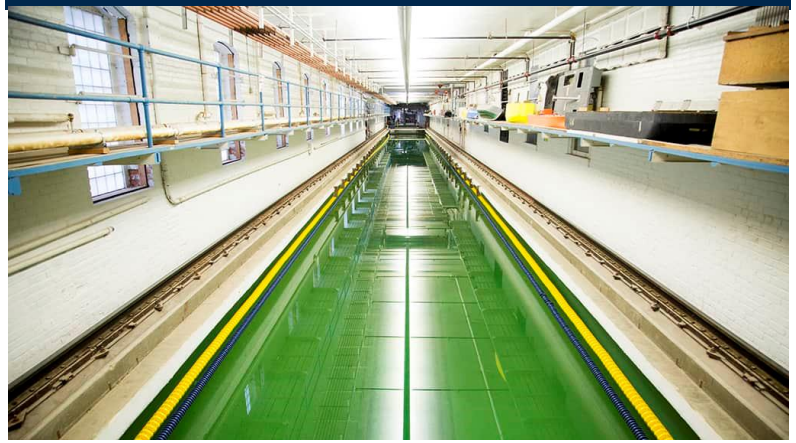
The Wilson Center is the facility that houses UMEB's workspace, among many others. Open 24/7, our team has access to CNC machinery, welding capabilities, laser-cutting, and many other manufacturing equipment.

The Battery Lab

The Battery Lab is a state-of-the-art facility in the U-M Electric Vehicle Center. Professors and highly trained technical staff guide us in testing our custom-design battery pack to optimize performance.

Naval Arch. & Marine Engineering Dept

The UM Naval Architecture and Marine Engineering (NAME) Department is the best in the country. The top faculty and advanced facilities are a crucial resource to the team's technical advancement.



The Competitions

UMEB plans to compete in April 2024 at **Promoting Electric Propulsion** event hosted by the American Society of Naval Engineers. The competition is hosted in Virginia and consists of 5 laps totaling 5 miles in the shortest time possible.

At the end of the summer, UMEB plans to take on the **Lake of the Ozarks Shootout**, which is the largest unsanctioned charity boat race in the U.S. This will be a chance for the team to set records and demonstrate our technology to the broader boating community.

UMEB has her eyes on the electric boat speed record, and plans on having a **Speed Record Event** (Kilo Run) next summer.

PEP
Promoting Electric Propulsion

The Fleet

Proteus ‘21

Proteus was where it all began for UMEB. Despite the COVID lockdown, the team persevered. *Proteus* finished **second at the 2021 Promoting Electric Propulsion** completion.

Snowfinkle ‘22 & ‘23

Snowfinkle is a next generation racing craft, utilizing **hydrofoil technology** to achieve flight. *Snowfinkle* participated at the 2022 Promoting Electric Propulsion Competition and was intended to compete in 2023, but unfortunately was not seaworthy.

The Parmar ‘23

Due to the setbacks with *Snowfinkle*, we built *The Parmar*. While it does not showcase our intended design, it does demonstrate the innovation and dedication our engineering team had. *The Parmar* raced over **3.5 miles, a mile for every day** we spent manufacturing the craft.

The Team Vision

What will your support help drive UMEB towards in the next few years?

Compete on the
North American Stage
against our Collegiate Competitors

Promoting Electric Propulsion

Lake of the Ozarks Shootout

UM Kilo Run Record Event

Design, Build, and Test an Electric Racing Craft, one of the

First of its Generation

With a Speed Target of

120 mph

An Electric Speed Boat

World Record

Establish University of Michigan Electric Boat as a North American **Leader in Marine Electrification**

Continue to build upon our roots, challenge ourselves and others, develop new technologies, start new designs:

Go Faster

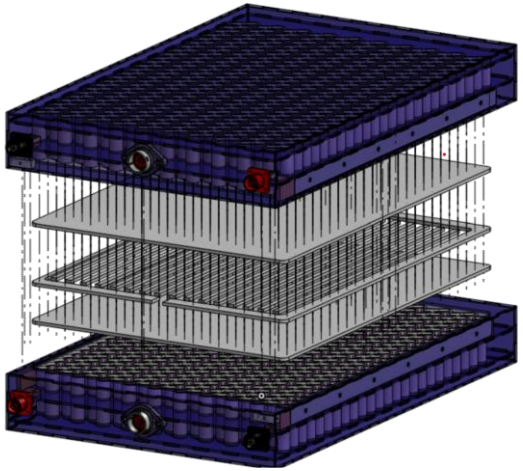
Compete on the International Stage at the **Monaco Energy Boat Challenge** against both Collegiate and Industry Competitors

Become a World Leader in Marine Innovation,

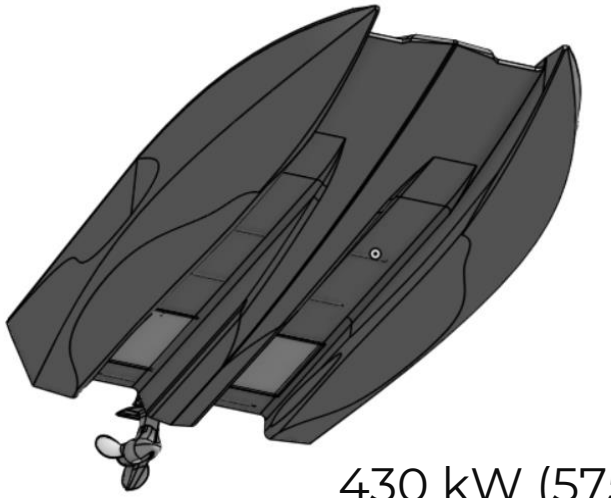
Inspiring Sustainability around the Globe

Design Vision

Overview of Designs



65 kWh Battery Pack at 800V



Active Hydrodynamic Controls

430 kW (575 HP) Electric Motor

Structural Composite Cockpit

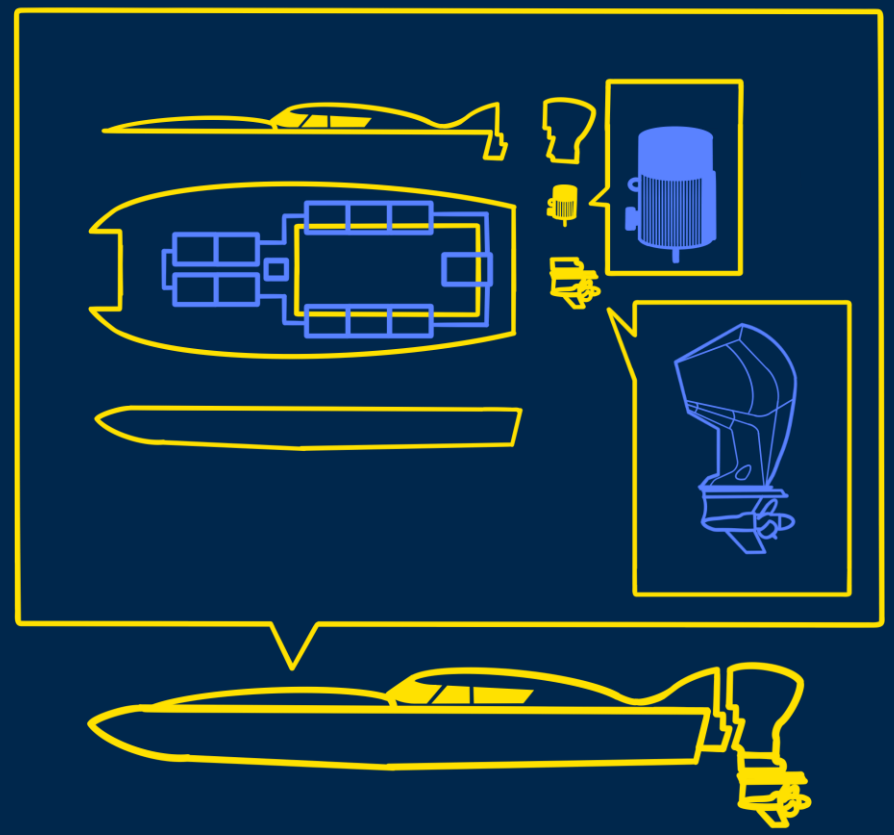
Liberator 22 Tunnel Racing Hull

Sponsoring Components

In addition to the Benefits of becoming a sponsor, this project will include the opportunity to sponsor a specific component, including:

Hull	**$25,000**
Battery Support	**$10,000**
Battery Cells	**$20,000**
Motor	**$15,000**
Motor Controller	**$15,000**
Outboard Drivetrain*	**$20,000**

Or In-Kind



By sponsoring components,

- Your logo will be placed on
    1. The sponsored component
    2. The side of the craft highlighting the sponsored component
- You will also receive increased social media exposure specific to the sponsored component.

To co-sponsor, the contribution must be half of the total cost of the component. To solo-sponsor, the component must be paid in full or provided in-kind.

*We require an outboard without the internal combustion but containing the lower transmission unit and the casing.

Special Sponsors

In addition to the Benefits of becoming a sponsor as well as sponsoring components, this project will include the opportunity to sponsor a specific aspect of the team, including:

Team Apparel — Gold+ Tier & $1,000

Purchase or provide the team's apparel in-kind. Your logo will be featured on prominently featured on all pieces

Testing Events — $1,000

Cater and fund the travel to public testing events. Your logo will be featured at the event and on our social media

Showcases — $2,500

Private event for all sponsors of UMEB. Your logo will be featured throughout the event. More info to come later

Trailer — $6,000

Purchase or provide in-kind donation for a trailer for the team's new boat. Your logo will be displayed on the sides

Join Us

	Bronze ($100 - $1,999)	Silver ($2,000 - $5,999)	Gold ($6,000 - $9,999)	Platinum ($10,000+)
Logo & Name on Website with Hyperlink	●	●	●	●
Tax Benefits	●	●	●	●
Access to Team Resume Book	●	●	●	●
Social Media Exposure		●	●	●
Logo on Enclosed Trailer and Boat (3rd Priority)		●	●	●
Post on LinkedIn		●	●	●
Short Summary of Organization on Website		●	●	●
Logo on boat (2nd priority)			●	●
Logo on Team Shirt			●	●
Logo Displayed in Our Workspace			●	●
Invitation to On-Water Testing Events			●	●
Multiple Dedicated Posts on LinkedIn			●	●
Invitation to Design Reviews			●	●
Dedicated Segment on Website				●
Co-hosted Networking Events on Campus				●
Logo on boat (1st priority)				●
Join us as a **Passenger** for a **Test Drive**				●

*Naming rights are reserved for the highest financial sponsors for a two-year sum, however, if an organization provides in-kind sponsorship with the highest value, they earn the naming rights.

Current Sponsors

Liberator

MICHIGAN ENGINEERING
UNIVERSITY OF MICHIGAN

SKATER POWERBOATS

McNAUGHTON-McKAY ELECTRIC COMPANY

EY

NAVAL ARCHITECTURE & MARINE ENGINEERING
UNIVERSITY OF MICHIGAN

BEYOND >

cadence®

gm

Ford

18650 BATTERYSTORE

EVOLVE ELECTRICS

Sabelt®

AMERICAN SOCIETY NAVAL ENGINEERS · 1888 ·

Engineered Materials Solutions
Wickeder Group

Thank you for considering donating to UMEB. Without generous sponsors, we would not be able to expand our knowledge through our innovative projects.

Our team would be more than happy to meet with you to answer any questions you may have. We would love to hear from you!

UMEB