

University of Michigan Electric Boat

2022-2023 Sponsorship Packet

University of Michigan
Electric Boat



Who We Are

The University of Michigan Electric Boat (UMEB) team is a student-led project team founded in 2019 that designs, builds, and races an electric boat to compete in the Promoting Electronic Propulsion (PEP) competition hosted by the American Society of Naval Engineers.

Our members come from all walks of life, but we all share one important commonality: We strive to challenge ourselves to implement sustainable technologies to educate the next generation of engineers.

2021 Competition Team



UMEB Values



Sustainability

We are committed to sustainability. Our vessel will be powered with electrical energy, decreasing our reliance on fossil fuels.



Innovation

No idea is a bad idea. Our project gives members the opportunity to apply their theoretical skills to a real-world project with room to experiment.



Adaptability

We're no strangers to setbacks; we were founded during the COVID-19 pandemic. Our adaptability allows us to strive for greatness no matter the circumstances.



Collaboration

Diversity is vital to our team, and we recognize the value that it brings. Our members thrive in the pursuit of over 10 different majors across an array of different departments.

Achievements

First hydrofoil design in the history of PEP Competition and 2nd place finish in 2021

In July of 2021, UMEB finished 2nd in our first ever race at the PEP competition. In 2022, we issued a complete redesign, implementing hydrofoils to the boat. In 2023, we plan to finish the design cycle and develop even more innovative concepts. Your support will help us achieve this goal!

2022 – Presenting the First Hydrofoil Boat at PEP



2021 - 2nd Place Finish



12 MPH

sustained over

4 MILES



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Our Competition

In June of 2023, UMEB will compete in a 5-mile race with our electric boat in Portsmouth, Virginia. This competition gives us an opportunity to work with design software, a variety of tools, and collaborate to create an innovative final product.

UMEB and our competitors are tasked with completing 5 laps in a short out and back circuit and will be given the opportunity to compete in an acceleration challenge. Cash prizes will be awarded to the top three finishers and teams displaying innovative engineering.



2021 Competition - Racing with University of Kentucky



Primary UMEB Subteams

A high-level overview of the UMEB subteams & their responsibilities

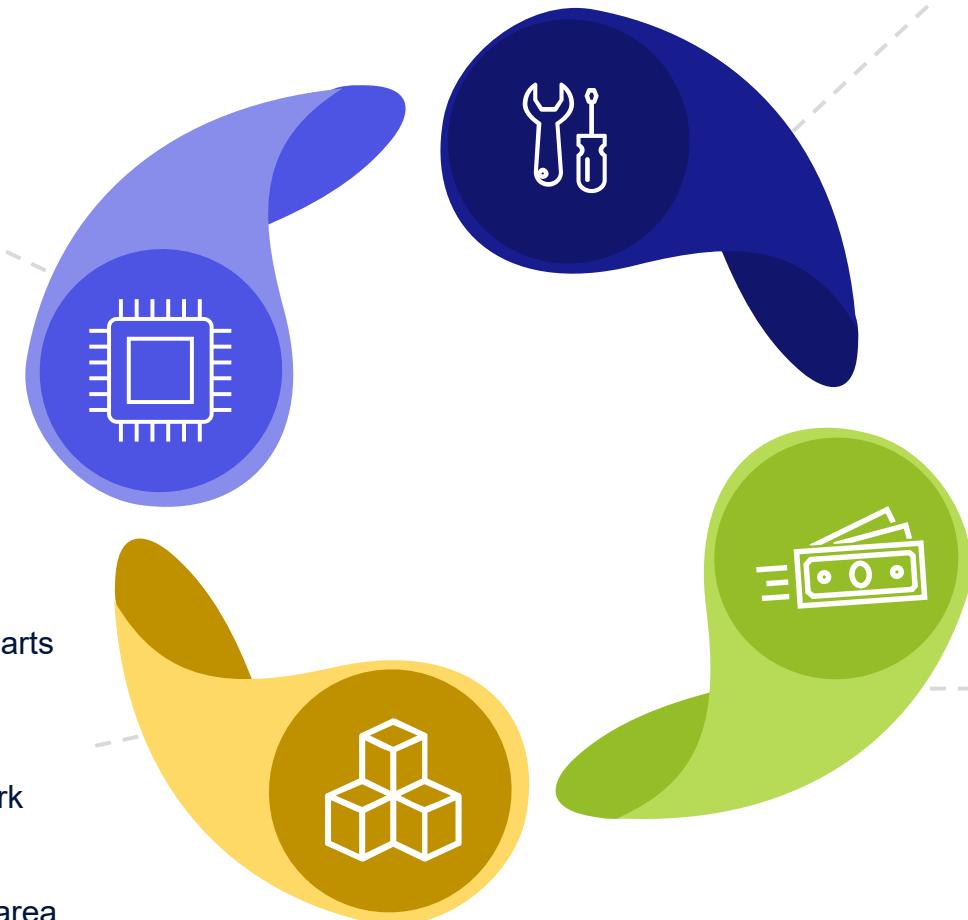
Electrical Team

Controls

Integrates control surfaces and propulsion motors with controller systems

Power

Implements powertrain systems from batteries to motors



Operations Team

Supply Chain

Manages team supply chain to ensure parts arrive on-time

Team Communication

Manages internal communication network

Workspace

Maintains and upgrades Wilson Center area to ensure a safe and efficient work environment

Mechanical Team

Hydrofoils

Designs and manufactures hydrofoils to reduce drag and maximize lift

Structures

Develops mounting mechanisms for hydrofoils and battery system

Hull

Designs hydrodynamic surfaces and propulsion pods

Drivetrain

Implements powertrain systems from gearbox to propeller

Cooling

Manages cooling of all components

Business Team

Finances

Manage the team's expenses and funding

Marketing

Develop marketing strategies for the team to acquire new members and advertise sponsors



Our Demographics

DEI Initiative

Diversity is paramount to UMEB's success. We are building the next generation of leaders in the field of engineering. Everyone is welcome on our team. Regardless of a student's background, or area of expertise, there is a place for them at UMEB.

38%

pursing a minor

58%

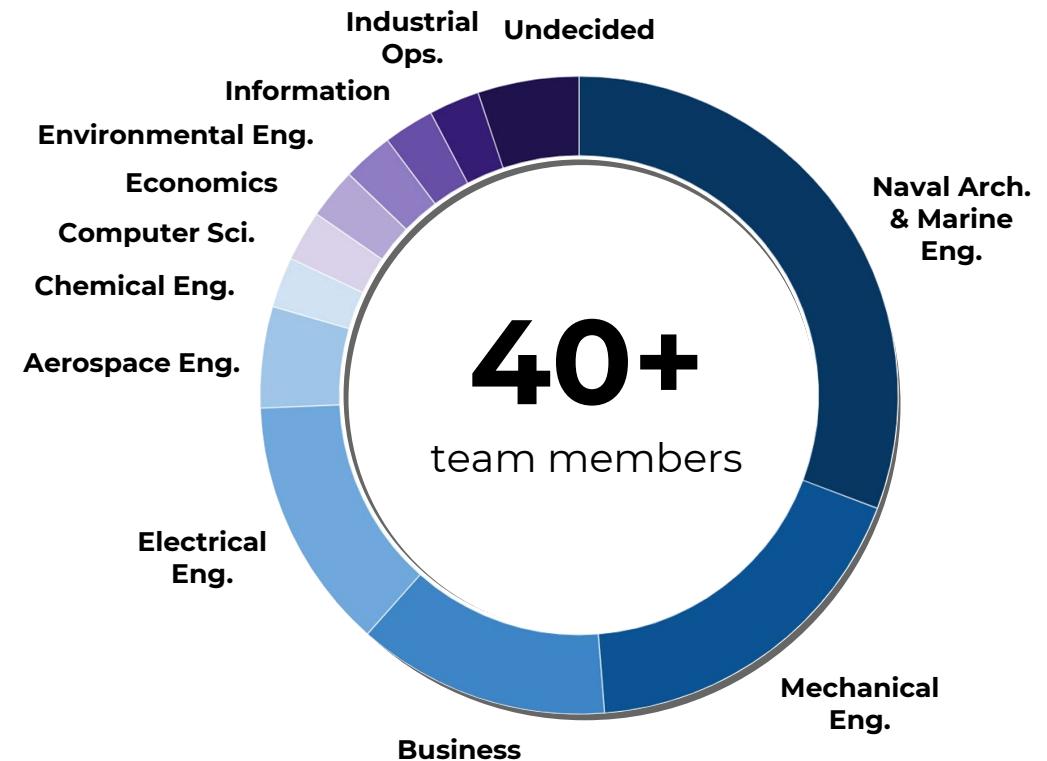
pursing graduate studies

11

different majors

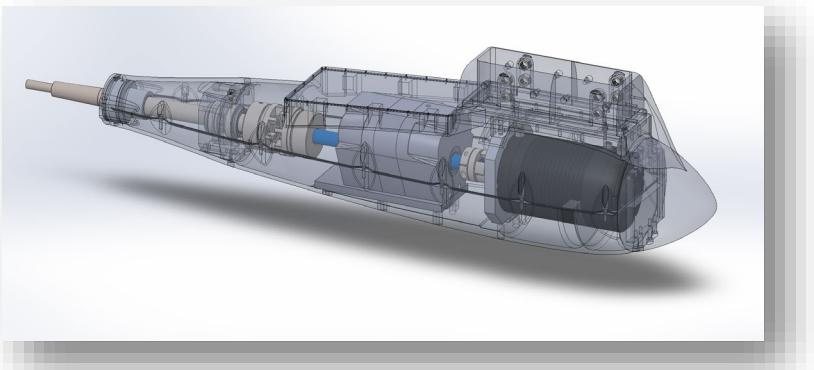


Team Degree Distribution



2023 Vision

UMEB is dedicated to our culture of innovation, and we plan to be the first team to compete with hydrofoils in the 2023 PEP Competition.

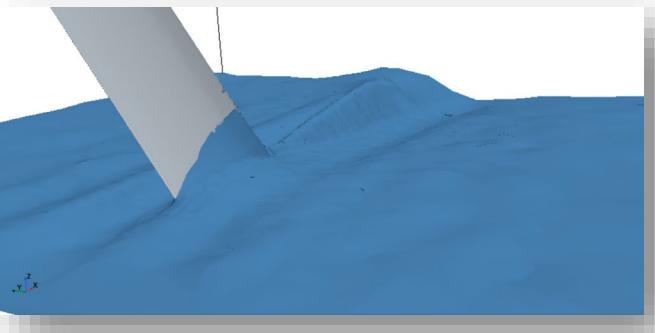


**Submerged
propulsion pod
design**

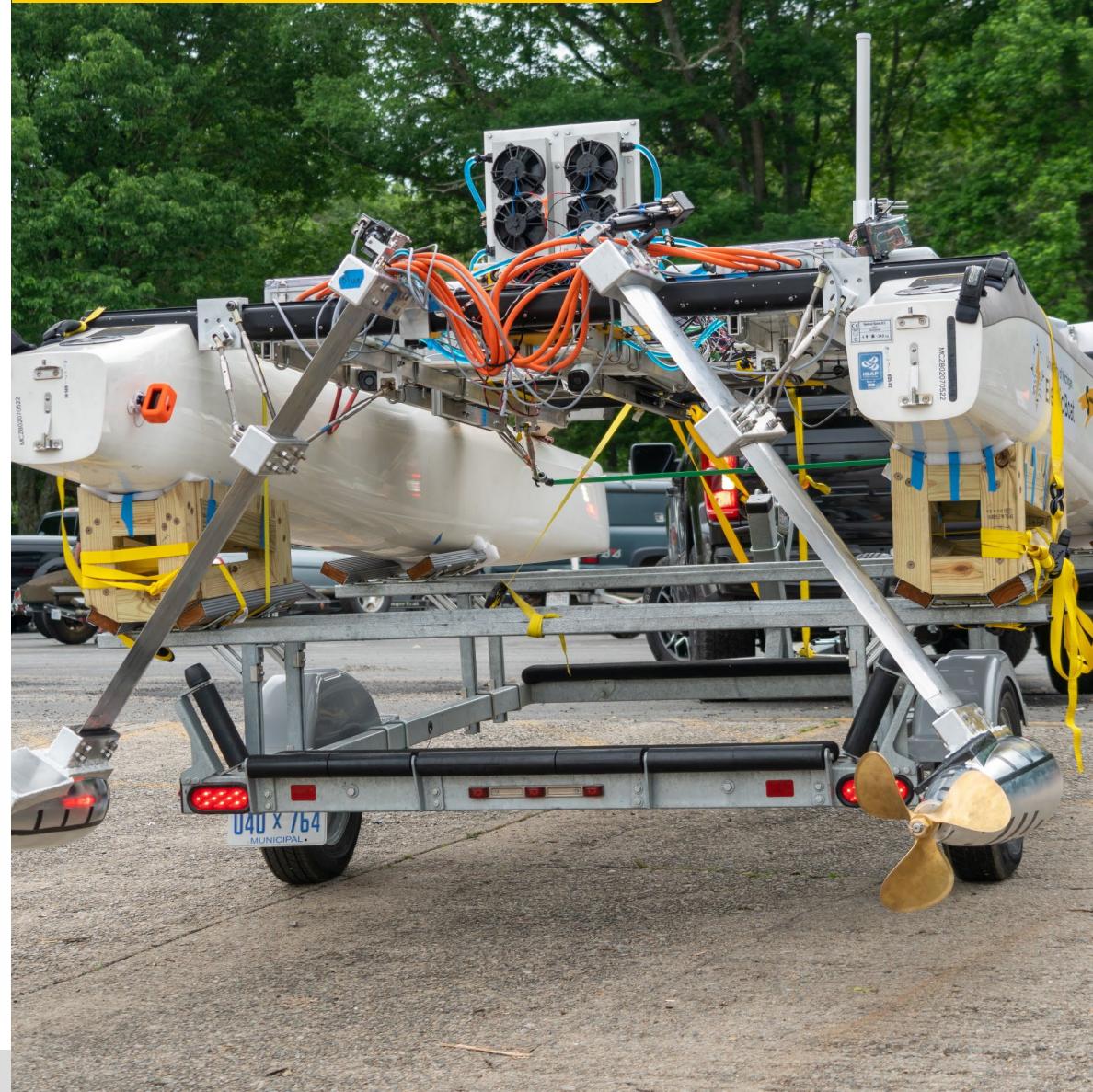
Throughout this school year we'll be working on our next-generation design to potentially compete on the world stage. We'd love to have you be a part of that process!



**Surface piercing
hydrofoil
simulation**



2022 Snowfinkle hydrofoil demonstration boat



How to Help

UMEB benefits from monetary donations, material donations, and design reviews. Please contact us if you have additional support strategies; we'd love to work with you!

	Hadal (\$100-\$1499)	Midnight (\$1500-\$3499)	Twilight (\$3500-\$7499)	Sunlight (\$7500+)
Logo and name on website with link	●	●	●	●
Social Media Exposure	●	●	●	●
Access to team resume book	●	●	●	●
Tax benefits	●	●	●	●
Logo on boat (small)		●		
Short summary of company on website		●	●	●
Name on shirt			●	●
2nd Priority for Boat Logo placement (medium)			●	
Invitation to testing			●	●
Post on LinkedIn			●	●
Logo on all Marketing material - videos				●
First priority for boat logo placement (large)				●
Co-hosted recruiting event on campus				●
Invitation to design reviews				●
Logo on shirt				●
Naming Rights (multi year)		Goes to the highest Donor		



Current Sponsors

Thank you to our sponsors! Their support is what makes UMEB's continued progress possible.



PUREWATERCRAFT



Thank you for considering donating to UMEB. Without generous sponsors, such as yourself, 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, meet some of our members, or learn about our current projects! We would love to hear your thoughts!

Deven Parmar
Captain

