



TeamTime

Friday, October 28, 2022 | 12:00 Noon Eastern Time (US & Canada)



YOUR JOURNEY STARTS HERE

MARCH 2023 | SARASOTA, FLORIDA



GET STARTED



1

Edit your name to "Name | Team Name"

2

Let us know in the chat:

Are you a returning or new team?

AGENDA

- [12 : 00 - 12 : 05] Welcome & Introductions
- [12 : 05 - 12 : 10] Dates, Theme & Venue
- [12 : 10 - 12 : 20] Eligibility, Competition Structure
- [12 : 20 - 12 : 35] Tasks
- [12 : 35 - 12 : 45] Timeline (Registration, Due Dates, Etc.)
- [12 : 45 - 13 : 00] Questions?



Team Handbook Version 1 Released



• REC



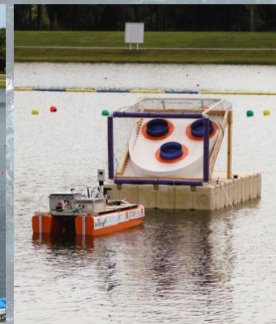


RoboBoat 2023



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NATHAN BENDERSON PARK
SARASOTA, FLORIDA



MARCH 2023

20 Week Countdown



roboboat



RoboBoat 2023

Meet the Humans

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Julianna Smith
Program Manager



Laverne Imori
*Community Engagement
Coordinator*



Lindsey Groark
Program Director



Cheri Koch
Senior Events Manager



Mr. Bill Porter
Technical Director





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Competition Structure

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Autonomy Challenge

Build an ASV to showcase autonomous performance.



Design Documentation

Prepare documentation showcasing ASV design and competition strategy.

Design Documentation

- *Team Website*
- *Technical Design Report*
- *Competition Strategy Video*
- *Testing Plan*
- *Design Presentation*



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Eligibility

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All teams must build an ASV to compete; only one vehicle in the competition.



Teams must be comprised of:

- 75% or more full-time students
- 25% or less alumni



Most team members must be college or high school students. Teams may also include middle school students. Interdisciplinary teams are encouraged.



Minimum of three (3) team members.





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Eligibility

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NEW: First-Year Teams

- First-year teams are eligible to participate without bringing an ASV to competition.
- First-year teams are expected to participate in Design Documentation and send representative(s) to the on-site event as a learning experience.
- These teams include those who've never competed at RoboBoat before, or if your team has been out of the competition for 1 year.





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Task Overview

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Autonomy Challenge

Introduction to the Tasks





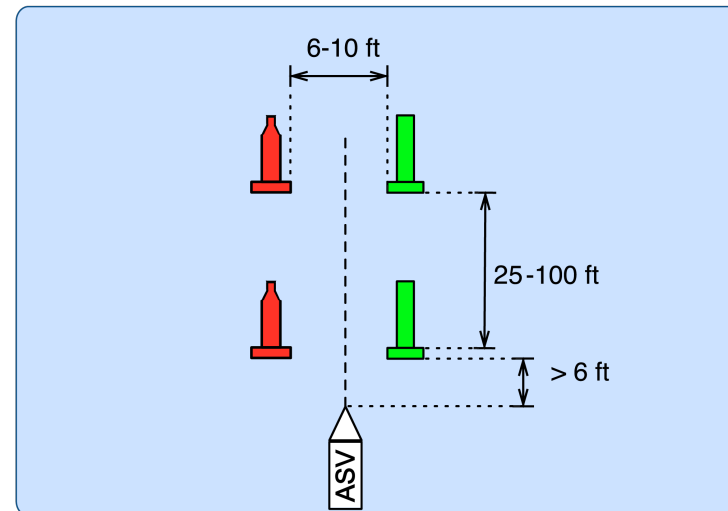
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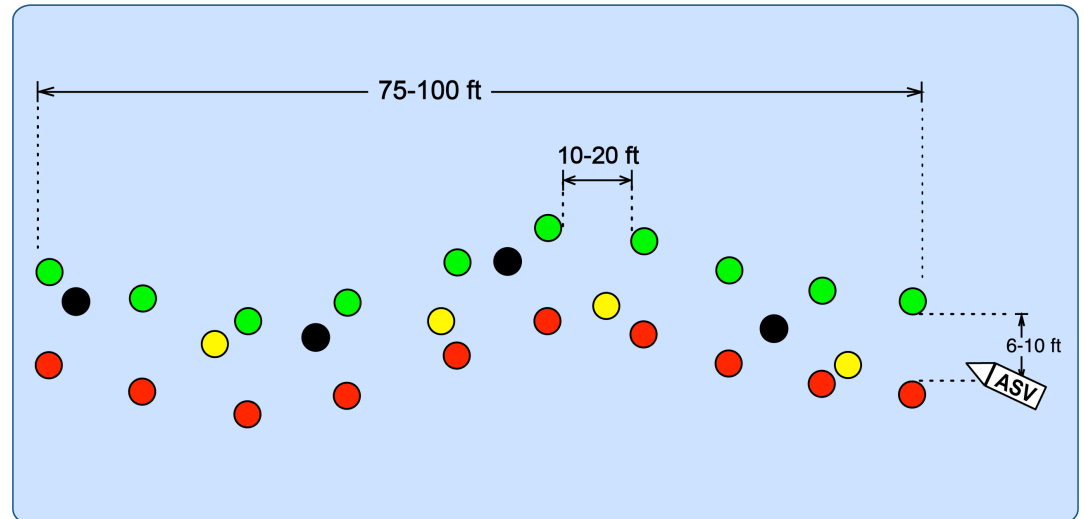
Task Overview

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Task 1: Navigate the Panama Canal

ASV navigates through two pairs of red and green buoys, without touching the buoys.







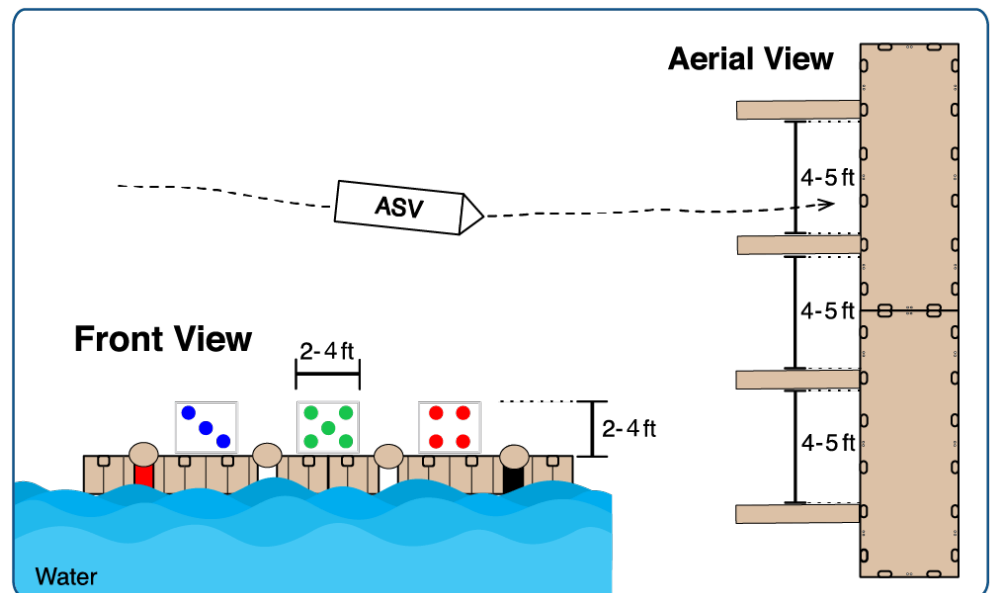
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Task Overview

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Task 3: Beaching & Inspecting Turtle Nests

ASV locates and maneuvers into an assigned docking bay.





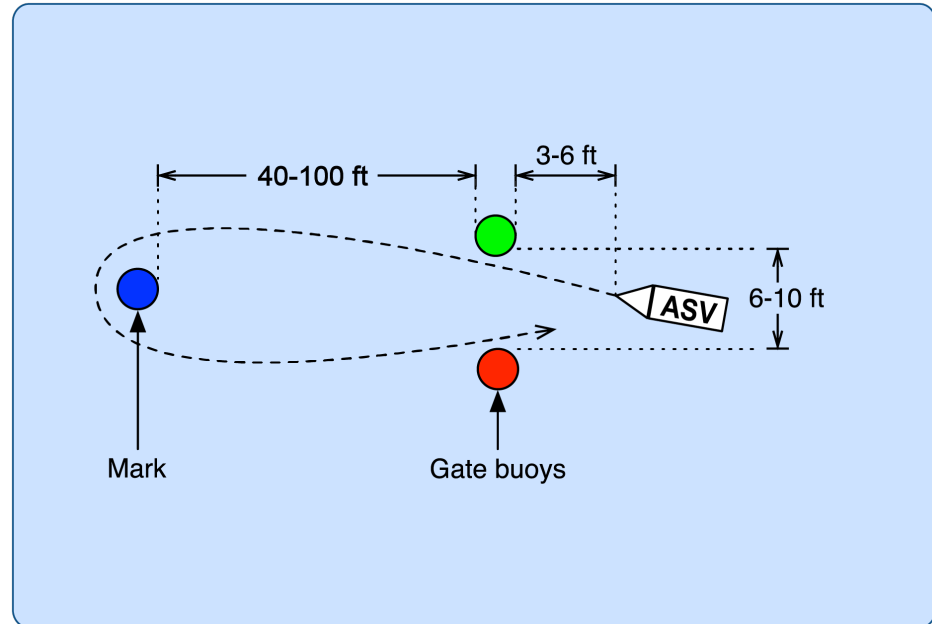
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Task Overview

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Task 4: Northern Passage Challenge

As quickly as possible, ASV enters through red and green buoys, goes around the blue buoy, and exits through red and green buoys.





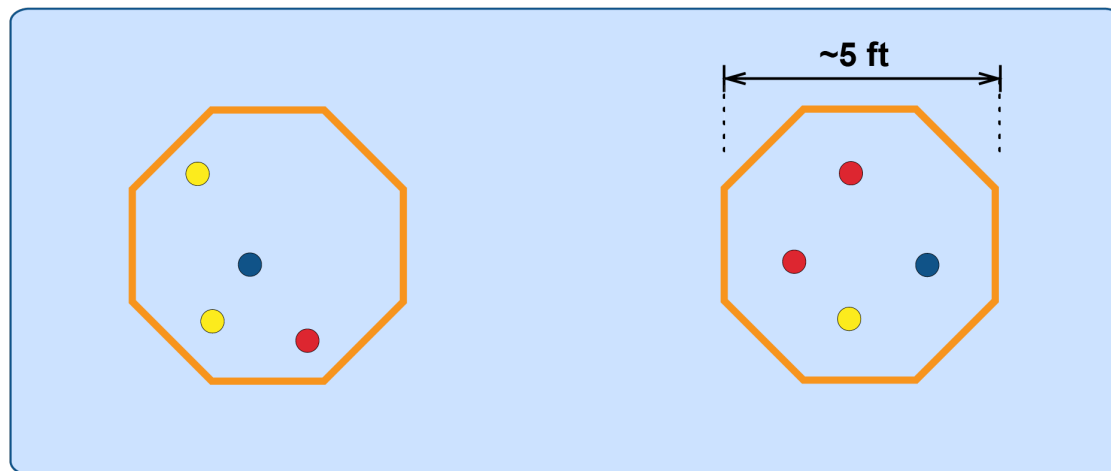
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Task Overview

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Task 5: Ocean Cleanup

ASV detects underwater pinger designating the correct area to collect racquetballs. The collected racquetballs can be used in Task 6 - Feed the Fish.





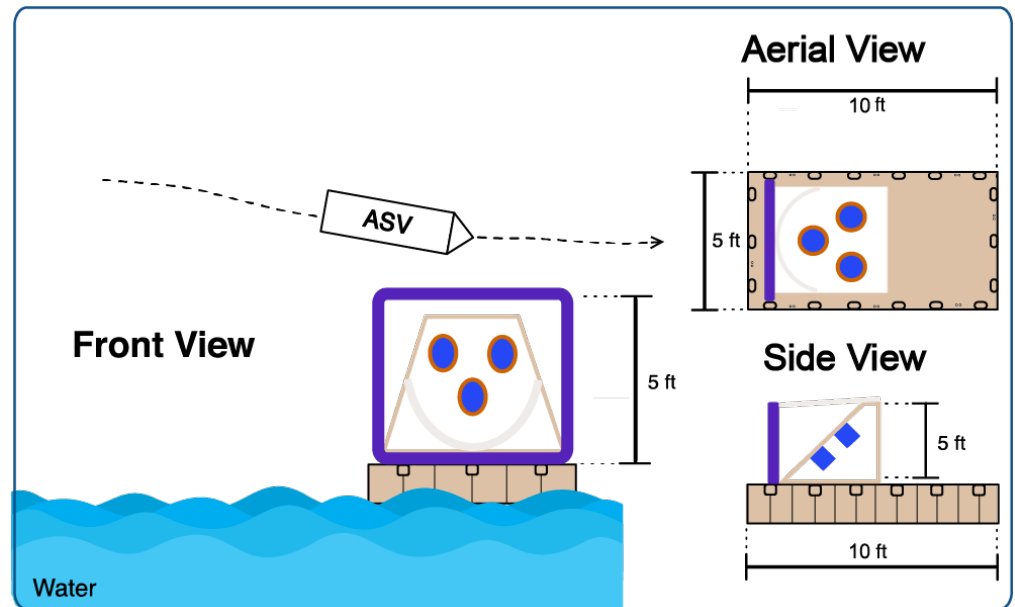
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Task Overview

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Task 6: Feed the Fish

ASV locates the purple frame and deploys racquetballs through frame into any of the three buckets.





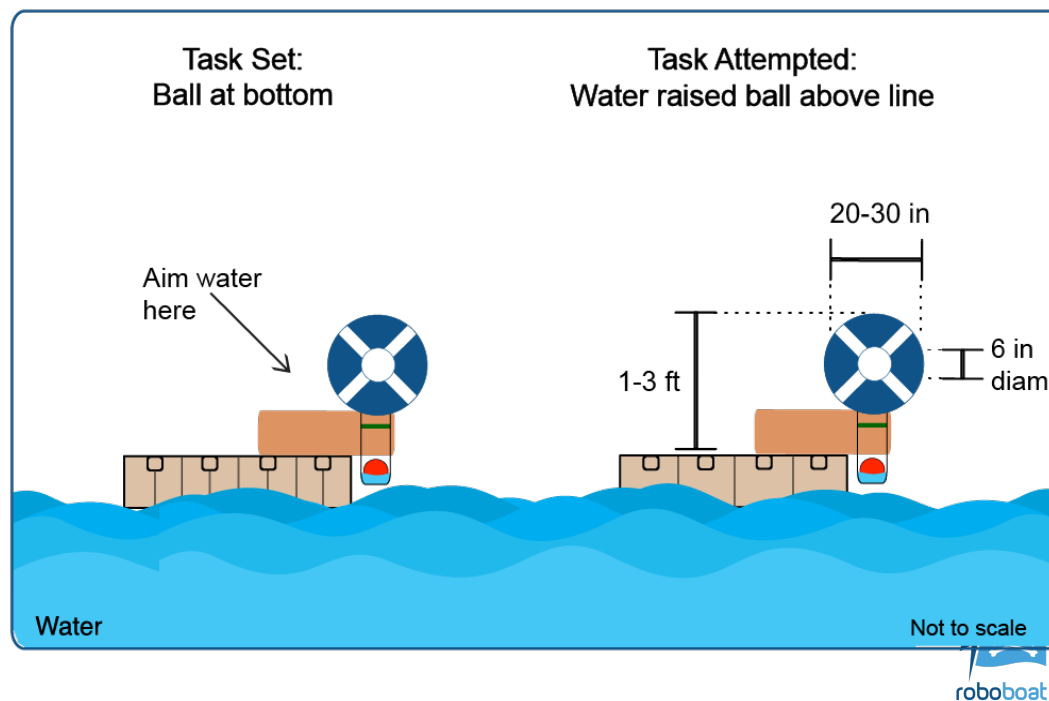
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Task Overview

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Task 7: Ponce de Leon / Fountain of Youth

ASV locates target and delivers water through center, filling up the tube with enough water to raise the ball to the green line.





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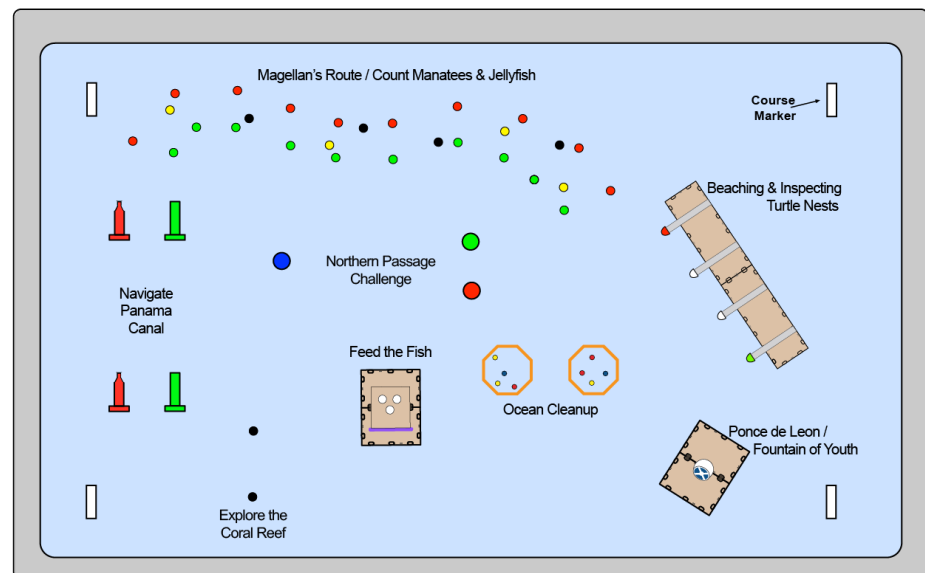
Task Overview

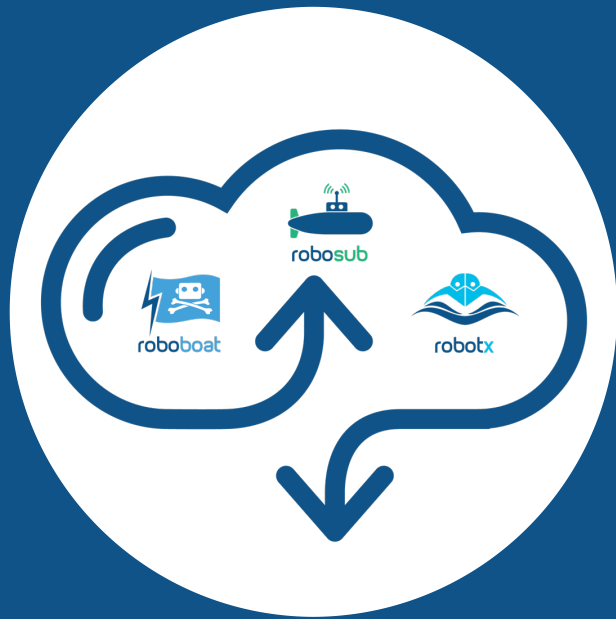
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Task 8: Explore the Coral Reef

ASV returns through the gate created with two black buoys after attempting tasks.

Preliminary Course Layout





Data Sharing

 roboboat.org/data-sharing

What is Data Sharing?



Centralized Repository



Community Driven



Competition
focused

Vision
Acoustics
Mechanical Designs
Electrical Designs



DATA FOR ALL
TEAMS



LARGE DOMAIN
OF DATASETS



BETTER PLATFORM
FOR NEW TEAMS

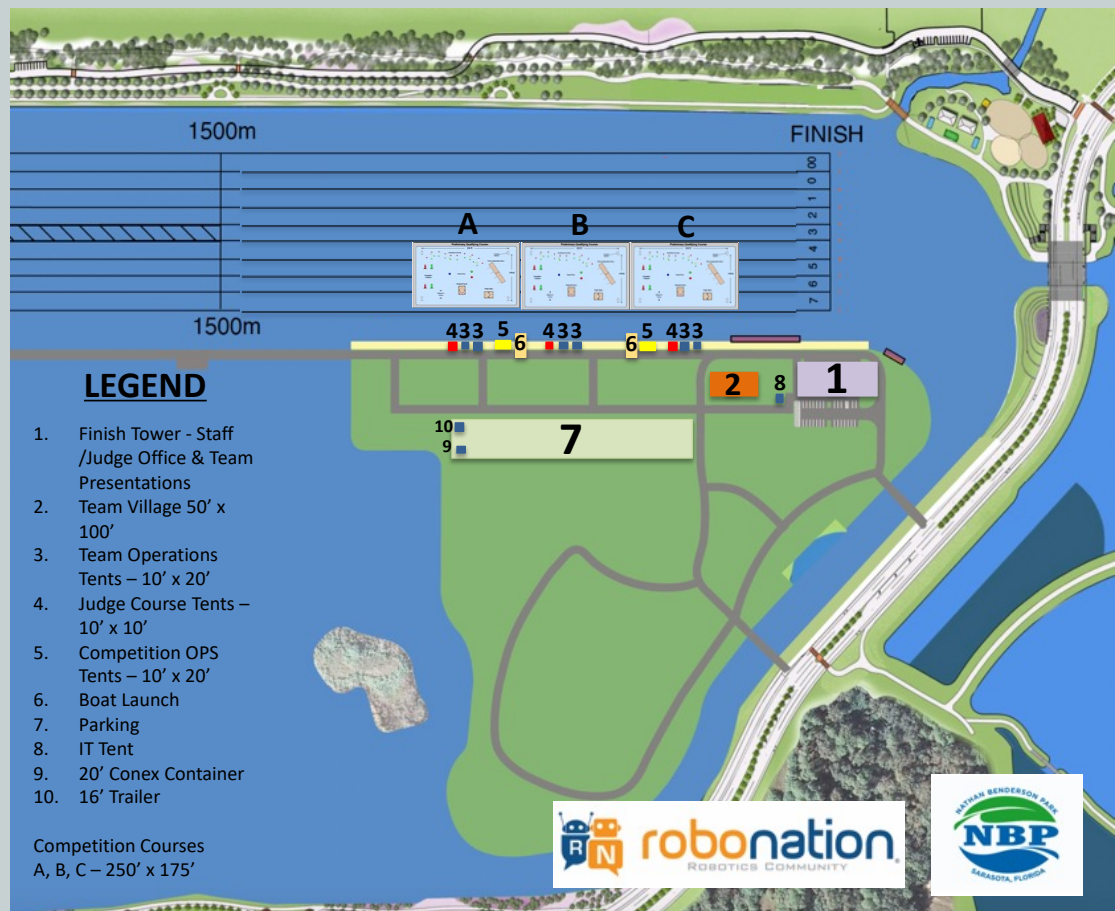


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Preliminary Venue Layout



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Get Started

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How to Get Started:

- ☐ Team Handbook
- ☐ Registration
- ☐ ASV Design Process
- ☐ TeamTime Meetings



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Get Started

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Registration

October 26 – December 16

Fee is \$750 USD

- roboboat.org/2023
- BOGO Teams
 - Contact autonomy@robonation.org if you did not receive email

Note: No Intent to Compete or Early Bird Registration





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Get Started

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Date/Deadline	Event
25 October – 16 December 2022	Registration
25 January 2023	Full Refund Cancellation Deadline
27 January 2023	Pre-Competition Deadlines: <ul style="list-style-type: none">• Team Information• On-Site Requirements
03 February 2023	Pre-Competition Deadlines: <ul style="list-style-type: none">• Design Documentation• Optional Community & Outreach
05 February 2023	50% Refund Cancellation Deadline
15 – 21 March 2023*	RoboBoat 2023

** These dates are tentative and are still being finalized with the venue.*





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Get Started

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RoboBoat 2023 TeamTime Meetings

Friday, October 28, 2022 @ 7:00 PM Eastern Time (US & Canada)

- Kickoff - Competition Overview & Task Ideas
- Open to all interested teams.
- [Click on this link to register.](#)

January Meeting (pending)

- Open to registered teams.

February Meeting (pending)

- Open to registered teams.





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GOT QUESTIONS?





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Thanks for attending!

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HAPPY HALLOWEEN!





robonation



seaperch



seaglide



gosense



roboboat



robosub



robotx



RoboNation is a 501c3 nonprofit organization whose mission is to provide a pathway of hands-on educational experiences that empower students to find innovative solutions to global challenges. Working together with the industry, research and educators, we have grown to include over nine student competitions and programs and engage more than 250,000 students per year.

For more information contact university-competitions@robonation.org