



team time

February 11, 2025

agenda

Edit your name to "**Name | Team Name**"
E.g., Laverne | University of RoboNation



ON-SITE REMINDERS

When you arrive in Sarasota
and at Nathan Benderson...

AUTONOMY CHALLENGE

Overview of Qualifying, Semi-
Finals, Finals

QUESTIONS?



Spare Parts Wishlist

🚨 ALERT! Our amazing partners at Blue Robotics want to have the right spare parts stocked onsite—but we need your help to make that happen! ❤️



on-site reminders



on-site contacts in case of emergency...

**Julianna
Smith**

Program Operations
Director

(571) 239-9345
jsmith@robonation.org



**Alison
Young**

Support Coordinator

(571) 775-9586
ayoung@robonation.org



**Hi-Vis
Vests**

Need something quick?

Find an orange vest!



schedule overview

Daily Meetings

0745 Morning Mtg
Starting Tuesday

1715 Evening Mtg
Starting Monday

Venue Hours

0730 Venue Opens
Starting Tuesday

1800 Venue Closes
Not including Sunday

Monday afternoon

Day 1

1300 Start
Team Check-in
Orientation
Safety Checks

2000
Overnight Testing

Tuesday - Thursday

Day 2-4

0800 Start
Practice/Qualifying
Presentations
Assessments

2000
Overnight Testing

Friday - Saturday

Day 5-6

0800 Start
Practice
Semi-Finals Rounds

2000
Overnight Testing

Sunday

Day 7

0800 Start
Finals Round 1 & 2

1800
Awards

presentations & assessments

prepare & practice

Design Strategy Presentation

Prepare a presentation with a concise description of your team's strategic vision, and how the vehicle design compliments your goals.

Time: 20 min.

System Assessment

Prepare your ASV to be inspected by judges to assess technical design, technical innovation, and craftsmanship of the design.

Time: 30 min.

TIP: Define your team's competition strategy and how that influenced your design choices, testing, and overall approach.

TEAM PHOTOS:
Teams will have an opportunity to take their team photo on...

presentations & assessments schedule

Tuesday

Morning

No Presentations

Afternoon

U Central Florida / Hagerty HS
Florida Atlantic University
Embry-Riddle Aeronautical U
University of Louisiana Lafayette
University of Michigan
Tecnológico de Monterrey

Wednesday

Morning

Massachusetts Institute of Tech
Lake Superior State University
Cornell University
James Martin High School
Advancing Science Tech & Art
Memorial U of Newfoundland

Afternoon

University of Texas at Dallas
U of Puerto Rico Mayaguez
Military Technical College
AGH University of S&T
Humber Polytechnic
Queen's University

Thursday

Morning

Institut Teknologi Sepuluh Nop
Navier USN
Universitas Sebelas Maret
Karadeniz Technical University
Hacettepe University
Gdansk University of Technology

Afternoon

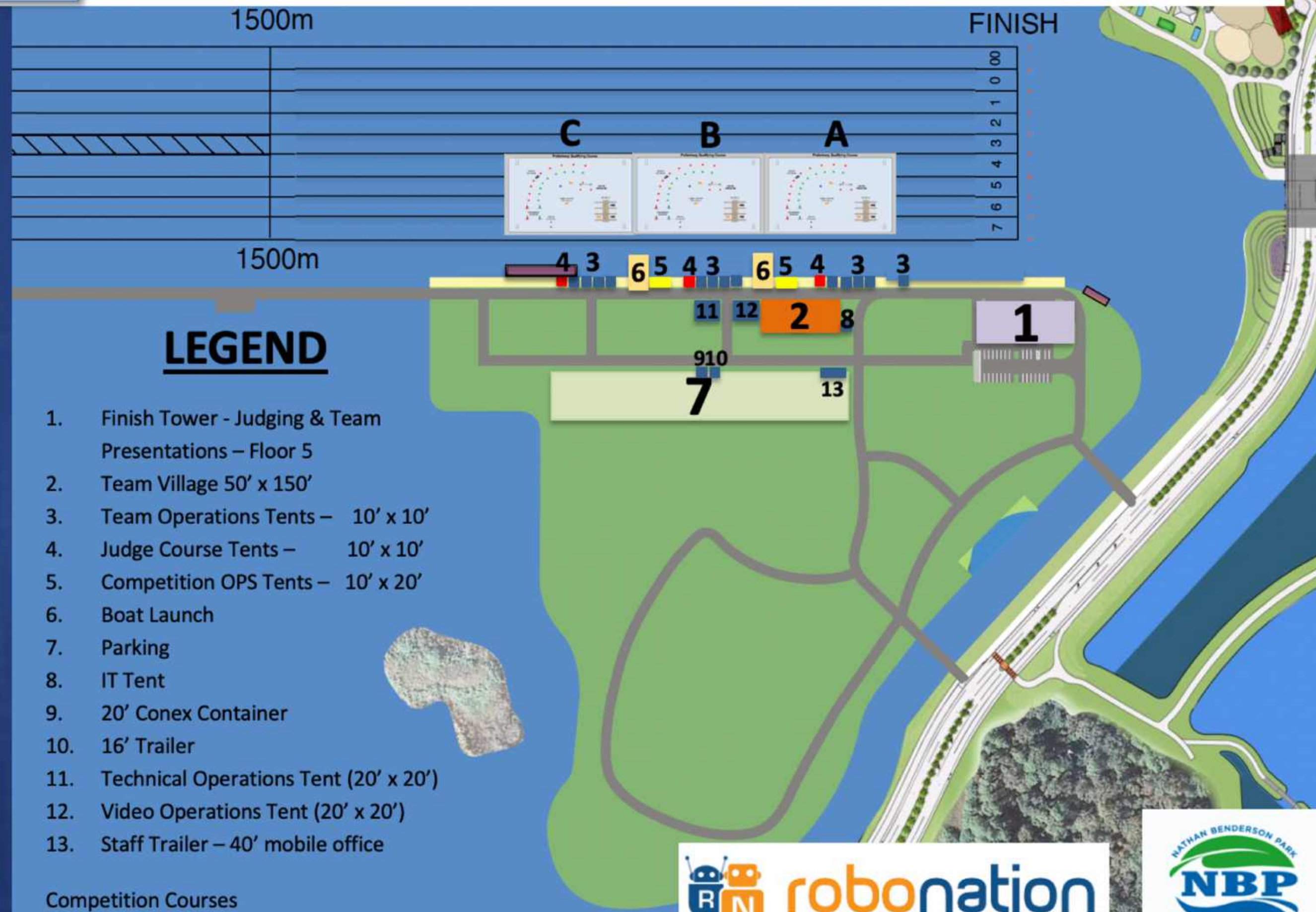
Turkish Naval Academy
Kyushu Institute of Technology





2025 RoboBoat Venue Layout

venue layout



LEGEND

1. Finish Tower - Judging & Team Presentations – Floor 5
2. Team Village 50' x 150'
3. Team Operations Tents – 10' x 10'
4. Judge Course Tents – 10' x 10'
5. Competition OPS Tents – 10' x 20'
6. Boat Launch
7. Parking
8. IT Tent
9. 20' Conex Container
10. 16' Trailer
11. Technical Operations Tent (20' x 20')
12. Video Operations Tent (20' x 20')
13. Staff Trailer – 40' mobile office

Competition Courses
A, B, C – 250' x 175'



team village



- 10' x 10' working space
- 2 tables / 7 chairs
- 1 electrical outlet
- Wireless Internet



Team Village Hours: 7:30 am - 6:00pm
(Opening at 1:00 pm on Monday)

overnight pool testing

Open to all RoboBoat Teams

Be sure to follow pool rules



Ameniti Bay Sarasota Hotel & Suites

Monday, March 3 - Saturday, March 8th

10:00 p.m. - 2:00 a.m.

shipping

FINALIZE OUTBOUND SHIPPING NOW!

- Equipment may be shipped to the event hotel (Ameniti Bay Sarasota).
- IMPORTANT DATES
 - Shipment Arrival - February 24 (no earlier)
 - Crate Storage - Feb 24 - March 3 / March 9 - 12
 - Outbound Shipping - March 9 - 12
- Shipping Guidelines
- Outbound shipping - Ensure that outbound shipping is arranged before you get onsite!
- Batteries are exceptionally difficult to ship.

FROM: School Name	
Address	
City, State, Zip	
Country	
<u>Ameniti</u> Bay Sarasota Hotel & Suites	
Attn: RoboBoat / School Name	
5985 <u>Brookhill</u> Boulevard	
Sarasota, Florida 34232	
On-site Team POC Name:	Phone:

example of inbound shipping label

be prepared

- The best time to visit Sarasota is March to May when temperatures range between 60 to 80 degrees Fahrenheit with little chance of rain.
 - However, always be prepared. Pack a jacket and dress in layers.
- Wear shoes with sturdy soles.
- Avoid sunburn. Bring sunscreen, hat, long-sleeved UV shirt to protect yourself.
- Hydrate! Hydrate!! Hydrate!!! Bring your own water bottle. Water will be provided in team village.
- Meals Not Provided at Venue. Eat regular meals as much as possible. There are restaurants close to the venue. Or purchase groceries at any of the local markets and pack your lunch to eat in Team Village.

transporting your ASV on-site

Teams must provide a cart to move the vehicle around the competition site.

- Cart must be manually propelled on site, no motorized carts.
- Cart's handle must be solid, no rope or chain.
- Cart's width must be less than thirty-six (36) inches.
- Carts are recommended to have six (6) inch (or more) diameter rubberized wheels.
- Carts may have to travel on concrete, dirt and grass surfaces and may also be submerged and sink in water when you launch and recover your boat.



“utility garden carts” available at most hardware stores
~\$100-200 USD

wireless emergency STOP

Please remember your Wireless Emergency stop system must fail safe. These products usually DO NOT and will not pass safety inspection.

I will be asking you to pull the battery on the transmitter and prove that the boat will stop.

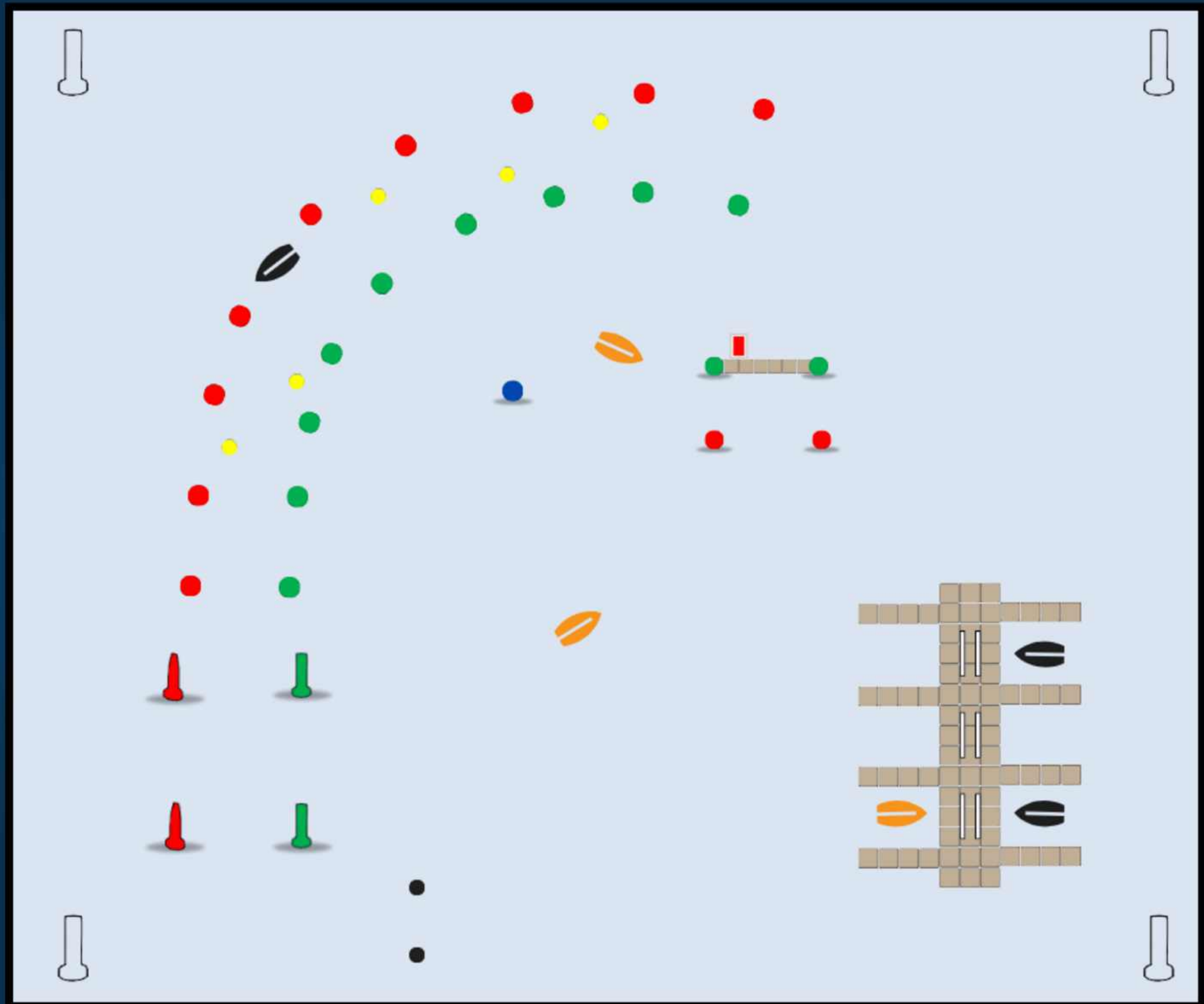


autonomy challenge



course layout

Subject to change

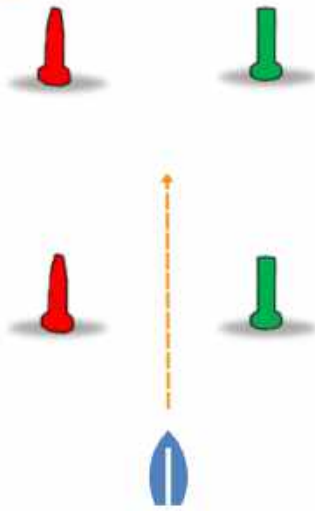


qualifying round

Qualify on 4 tasks

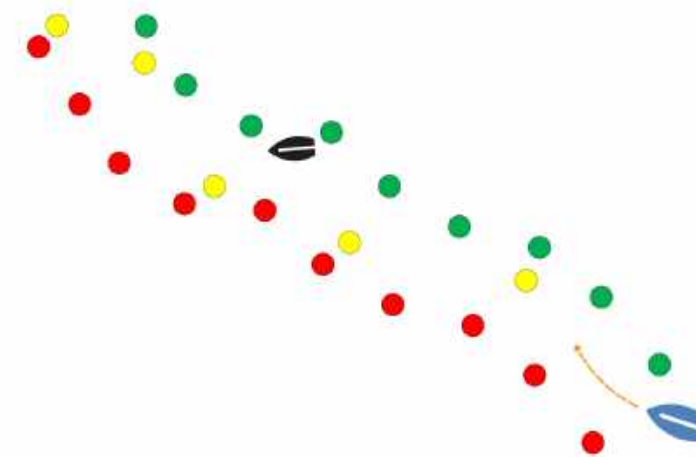
- 2 tasks must be completed autonomously in sequence

Task 1 Navigation Channel



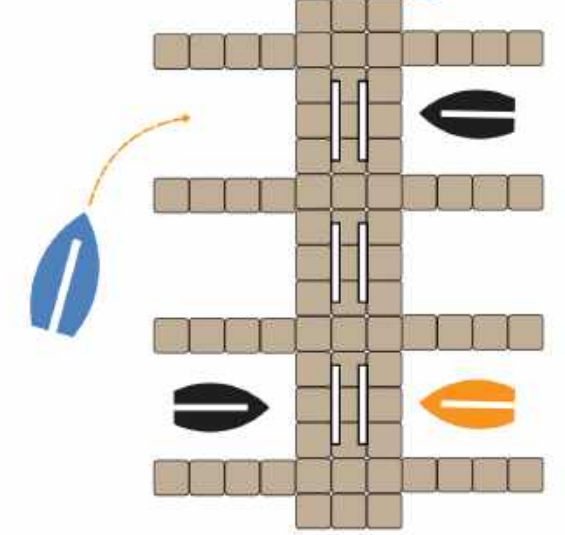
ASV maneuvers through both gates.

Task 2 Follow the Path



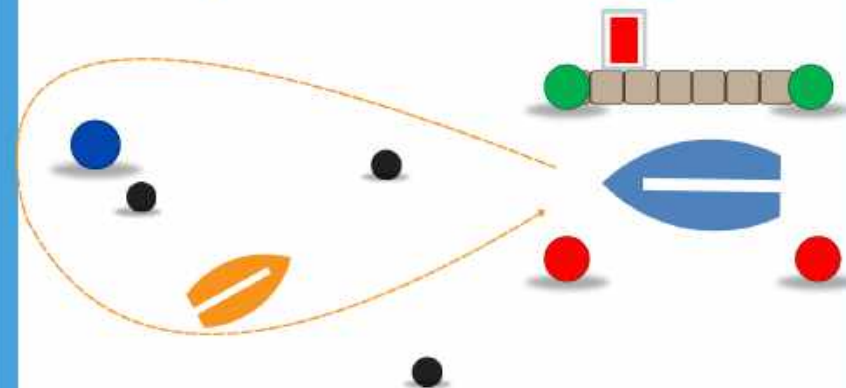
ASV maneuvers through 5 gates of pathway, at minimum.

Task 3 Docking



ASV locates and docks in any unoccupied docking bay.

Task 4 Speed Challenge



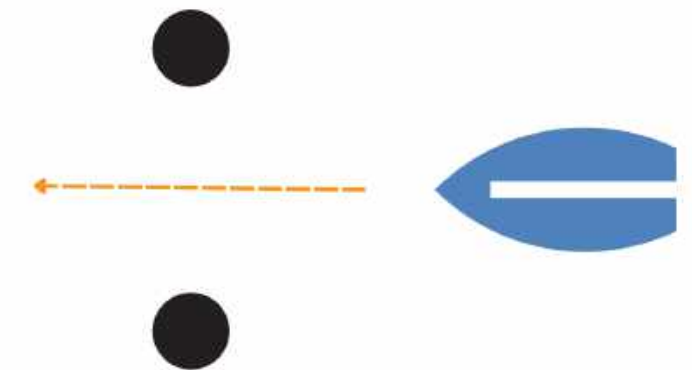
ASV enters gate, circles blue buoy, and exits gate.

Task 5 Object/Water Delivery



ASV delivers one ball to a black vessel or delivers water to an orange vessel.

Task 6 Return to Home



Cannot be used for qualifying.

qualifying vs. semis & finals

Qualifying

Tuesday (PM)-Thursday, March 4-6

- **Individual Tasks:**
 - Teams attempt completion on individual tasks in any order (not including Task 6)
 - Teams sign up to practice on individual tasks - multiple boats could be on one course
- **Qualification Criteria:**
 - 4 Tasks required to complete to advance to Semi-Finals
 - **NEW** - 2 Tasks (of the 4) must be completed autonomously in sequence
- **Qualification Status:** A tracker will be on digital sheet (roboboat.org/course-schedule)

Semi-Finals

Friday-Saturday, March 7-8

- **Autonomous Score Runs:**
 - ASVs operate autonomously throughout entire run, enter through gates in Nav Channel
 - No remote-control surveying
 - Only one boat on one course
- **Choosing Semis Time Slots:** During evening Team Meetings before Fri/Sat, qualified teams will select their time slots.
- **Wild Card:** Teams who have not qualified yet, are encouraged to still work toward qualifying and earning a wild card semi-finals spot for Friday and/or Saturday!

Finals

Sunday, March 9

- **Autonomous Score Runs:**
 - ASVs operate autonomously throughout entire run, enter through gates in Nav Channel
 - No remote-control surveying
 - Only one boat on one course
- **Choosing Finals Time Slots:** Saturday evening, judges will determine which teams advance to Finals based off Semis scores. Finalists will select their time slots.
- **Wild Card:** If a Wild Card slot is available, details will be announced Saturday evening on how to earn a Wild Card.

questions?

- robonation.org/discord
- competitions@robonation.org





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 competitions@robonation.org