



team time

January 10, 2025

agenda

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



COMPETITION

Introduction to the competition, including the teams, staff, and timeline.

EVENT DETAILS

Overview of the event, including schedule, hotel, testing, and shipping.

TASKS & SCORING

Breakdown of the tasks and scoring for the autonomy challenge.

• welcome to roboboat



roboboat

30 teams

9 first-years
21 returners

1 champ

6 tasks



robo staff



**BILL |
TECHNICAL**



**JULIANNA |
COMPETITION**



**CHERI |
LOGISTICS**



**YADIRA |
LOGISTICS**



**JOE |
TECHNICAL**



**ALICIA |
MARKETING**



**ALISON |
REGISTRATION**



**LAVERNE |
COMMUNITY**



**EBBIE | CANINE
COORDINATOR**

the teams



ADVANCING SCIENCE
TECHNOLOGY AND ART



AGH UNIVERSITY OF
KRAKOW



BAHRIA UNIVERSITY



BAYLOR UNIVERSITY



CORNELL UNIVERSITY



EMBRY-RIDDLE
AERONAUTICAL
UNIVERSITY



FLORIDA ATLANTIC
UNIVERSITY



GDAŃSK UNIVERSITY OF
TECHNOLOGY



GEORGE MASON
UNIVERSITY



HACETTEPE UNIVERSITY



HUMBER POLYTECHNIC



INSTITUT TEKNOLOGI
SEPULUH NOPEMBER



JAMES MARTIN HIGH
SCHOOL



KARADENIZ TECHNICAL
UNIVERSITY



KYUSHU INSTITUTE OF
TECHNOLOGY



LAKE SUPERIOR STATE
UNIVERSITY



MASSACHUSETTS
INSTITUTE OF
TECHNOLOGY



MEMORIAL UNIVERSITY
OF NEWFOUNDLAND



MILITARY TECHNICAL
COLLEGE



NAVIER USN



QUEEN'S UNIVERSITY



SOUTH DAKOTA MINES



TECNOLÓGICO DE
MONTERREY



THE UNIVERSITY OF
TEXAS AT DALLAS



TURKISH NAVAL
ACADEMY



UNIVERSITAS SEBELAS
MARET



UNIVERSITY OF CENTRAL
FLORIDA * HAGERTY HIGH
SCHOOL



UNIVERSITY OF
LOUISIANA AT LAFAYETTE



UNIVERSITY OF
MICHIGAN



UNIVERSITY OF PUERTO
RICO-MAYAGÜEZ



30 TEAMS 10 COUNTRIES 9 FIRST-YEAR TEAMS

competition overview



featuring ITU Autobee, 2024

competition timeline

Jan 20 - Event Submissions
Deadline

Jan 27 - Design Documentation
Deadline

Feb 11 - TeamTime #2

JANUARY 2025

S	M	T	W	T	F	S
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

FEBRUARY 2025

S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1

pre-competition deliverables



Past Examples
roboboat.org/past-programs

Technical Design Report

Write a report describing the teams' design principles and competition priorities.

Max: 6 pages

Team Website

Website documents your team, system design, and competition approach, evaluated on (1) Content and (2) Quality.

Team Video

Prepare a video that is a creative showcase highlighting the teams' personality, mission and culture.

Max: 3 minutes

Submit in registration portal:
robonation.smapply.org/acc/l/

TIP: Review your submission from the perspective of a judge.

in-person deliverables

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.

**Delivered in-person during the competition:
March 4-6**

event details



featuring MHS SEALs, 2024

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

event hotel & overnight testing

Ameniti Bay Sarasota Hotel & Suites

Booking Information:

- Hotel booking link to be shared on Discord
- Event Rate: \$244 + 13% tax + \$4.95 green fee
- Booking deadline: February 2

Overnight Pool Testing:

- Hours: 10pm - 2am, starting March 3
- Open to all RoboBoat teams
- Follow event pool rules to make sure we can come back!



shipping tips

START PLANNING 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:

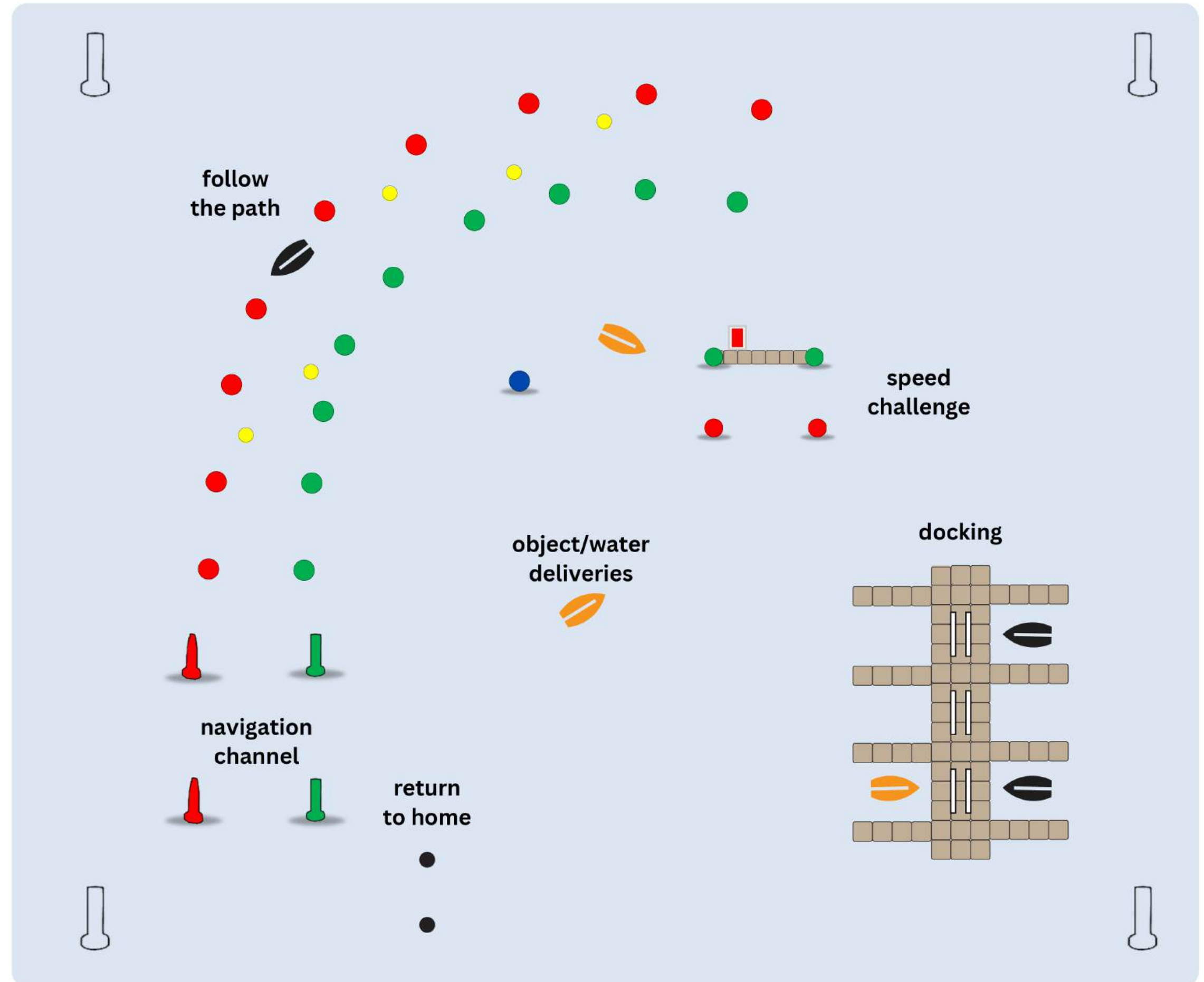
example of inbound shipping label

tasks & scoring



featuring CU Autoboot, 2024

task overview

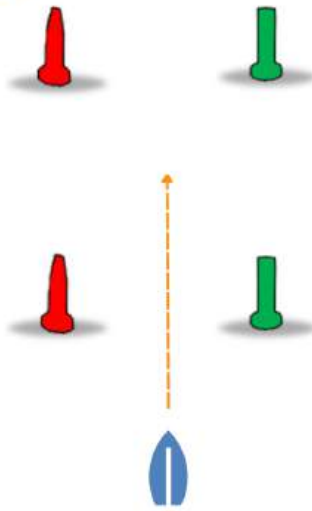


tasks

Mandatory Check

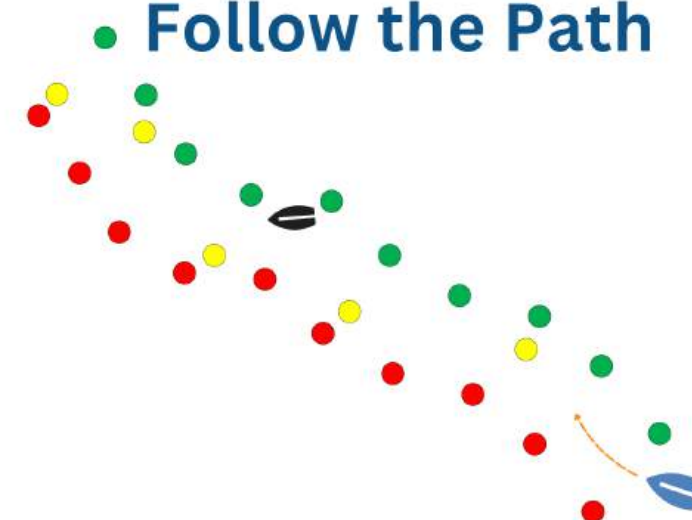


Task 1 Navigation Channel



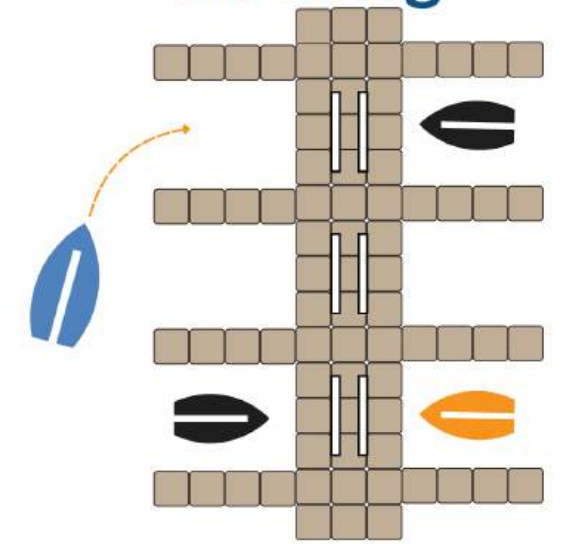
ASV maneuvers through both gates. Required to start Semi-Finals / Finals run.

Task 2 Follow the Path



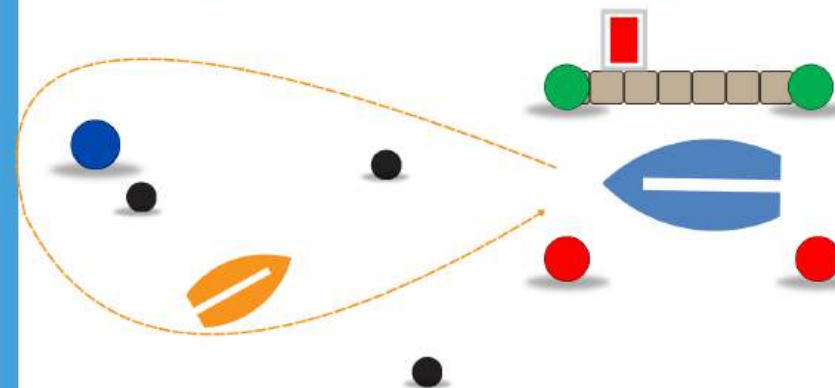
ASV maneuvers path, avoids striking any buoys, and counts obstacle buoys to report after pathway is complete.

Task 3 Docking



ASV locates and docks in the unoccupied docking bay with the correct color of the day.

Task 4 Speed Challenge



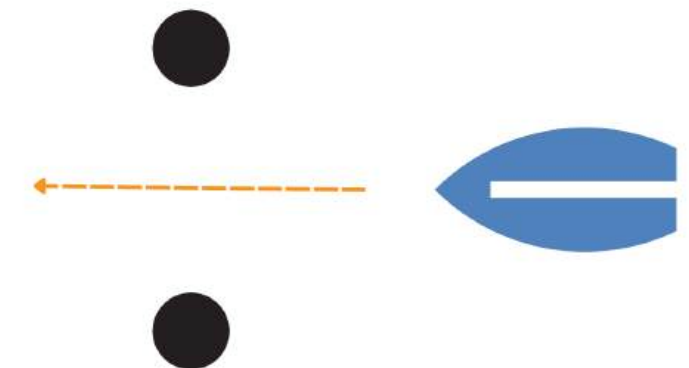
ASV enters the holding bay and observes the light panel. Upon a green light, the ASV completes the maneuver as quickly as possible.

Task 5 Object/Water Delivery



Throughout the course, the ASV locates black vessels to deliver racquetballs to and orange vessels to deliver water to.

Task 6 Return to Home



ASV returns to two black buoys during a Semi-Finals / Finals run to end the run.

task updates

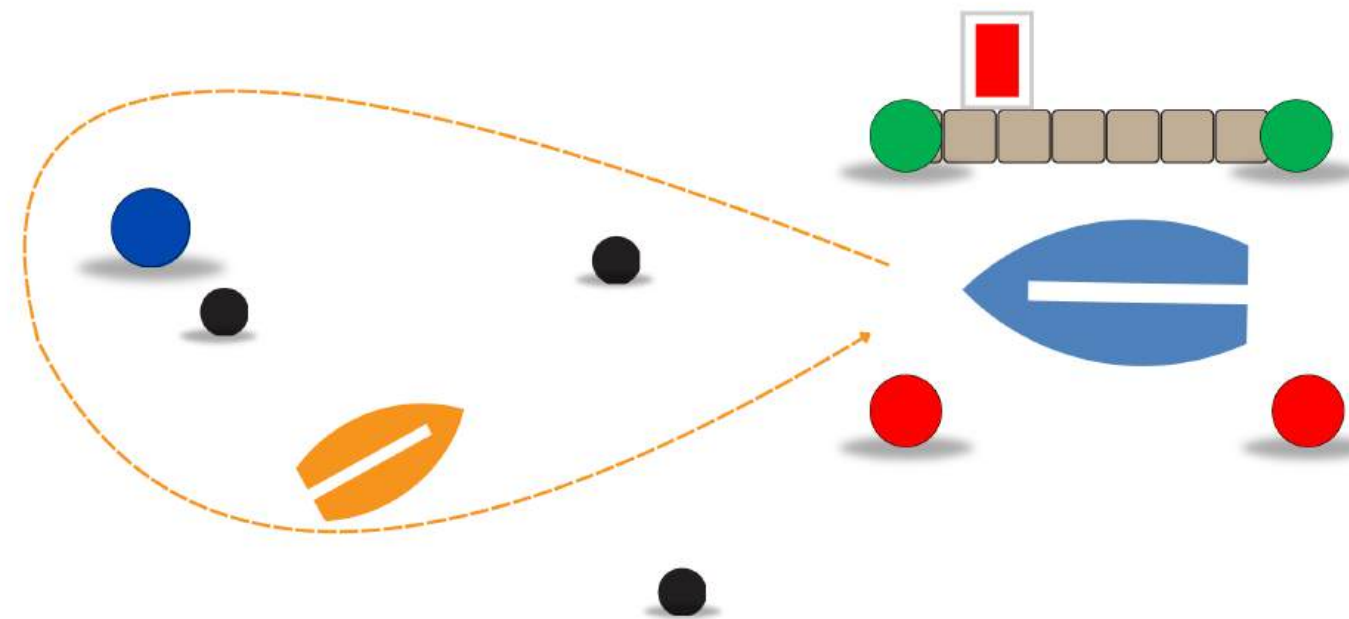
Task 4 Speed Challenge



Light panel example:

The power source, solar panels, will be visible.

(Note: light panel will not be mounted on tower)

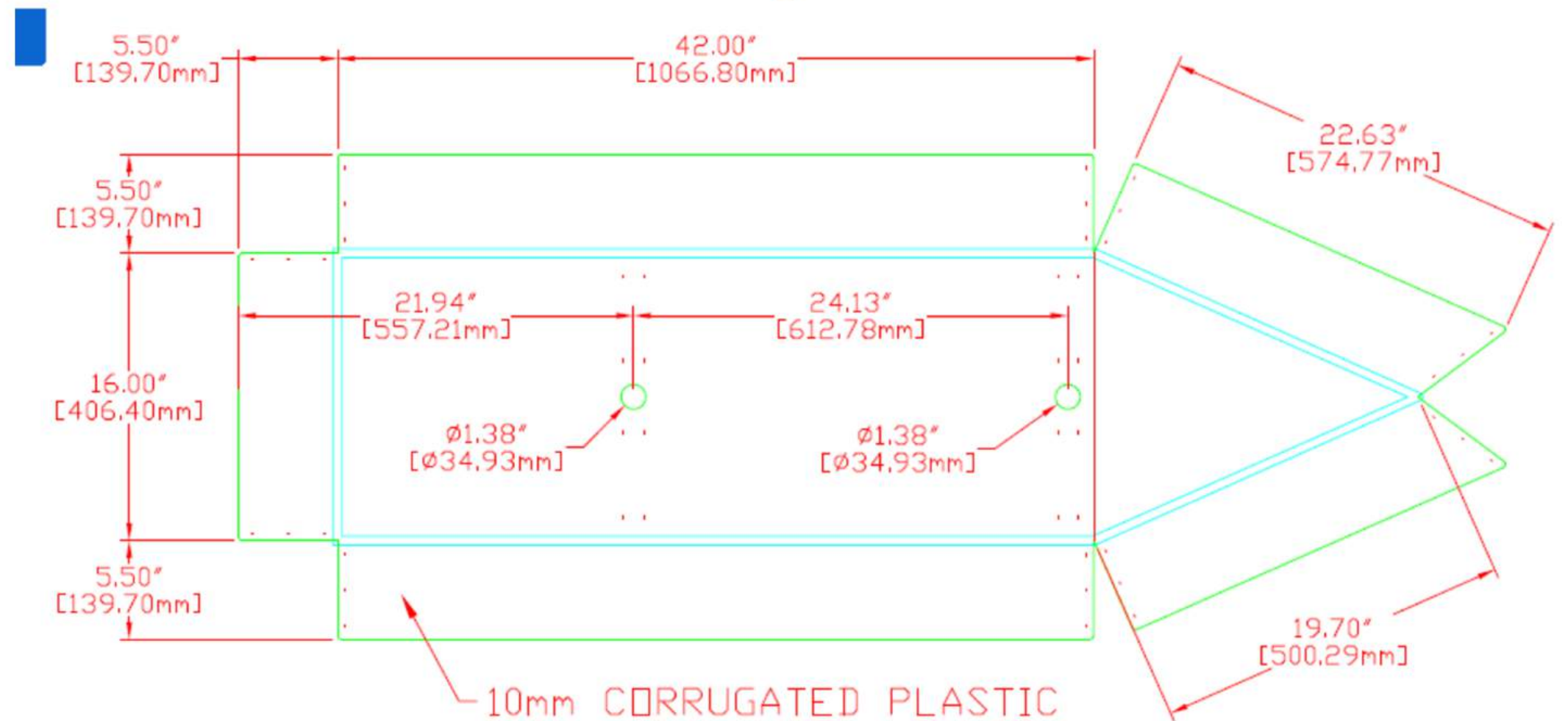
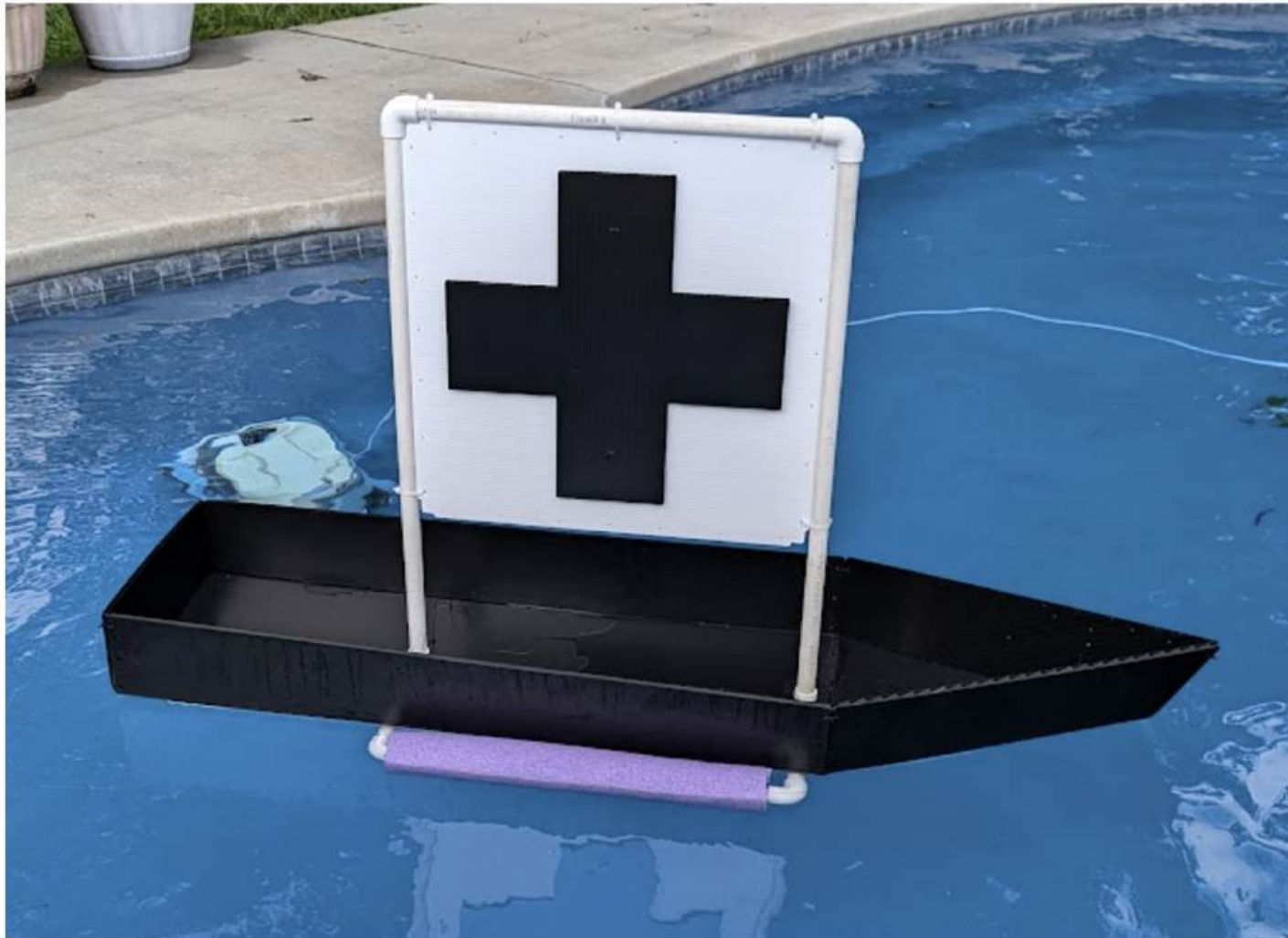


Behavior change:

No reporting on black buoys in this task.

task updates

Task 5 Object and Water Delivery



Design on Discord

scoring updates

Follow the Path

- bonus points for navigating all 10 gates in sequence
- no more limit on point deductions for striking buoys

Docking

- points only awarded when docking in unoccupied bay
- points awarded for docking forward / backward

Speed Challenge

- station-keeping at the starting line

Object & Water Delivery

- points increase the more boats you find and act on

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