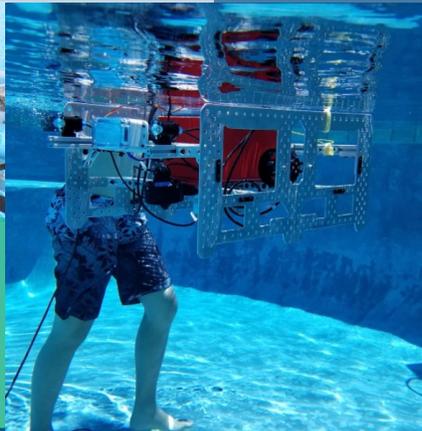
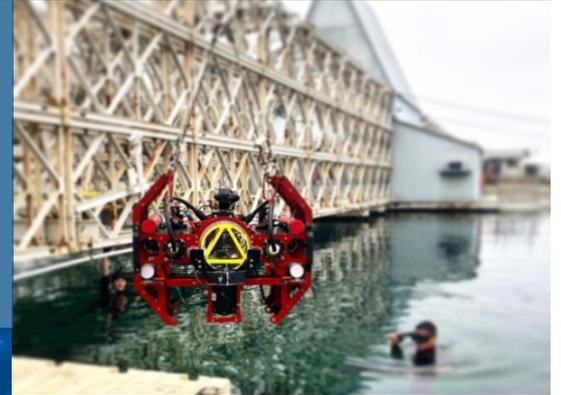




ROBOSUB TEAM TIME

Wednesday, June 10, 2022 | 7:00 PM Eastern Standard Time





Welcome 2022 RoboSub Community!

GET
STARTED



- 1 Edit your name to "Name | Team Name"
- 2  Put your answer in Chat:
What will Daveman show up as?
G-Man, Bootlegger, Flapper or Duck?



RoboSub TeamTime

AGENDA

- [19:00-19:05] Welcome
- [19:05-19:10] Deadline Reminders
- [19:10-19:20] Shipping Information
- [19:20-19:30] Pool & Venue Details
- [19:30-19:40] Vehicle Deployment & Recovery
- [19:40-19:50] Bottles Update
- [19:50-20:00] Questions?



June ~~5~~ 8 Deadline

- **Team Information**
 - Including Liability Waivers, YPPs, Resumes
- **Team Demographics**

June 12 Deadline

- **Merchandise Order – Payment Deadline Extended to 19 June**
 - Including T-Shirts, Parking, Dorm Housing Add-ons
- **Design Documentation**
 - Technical Design Report, Competition Strategy Video, Website
- **Online Teams | Video Demonstration**
- **In-Person Teams | On-Site Requirements**
 - Shipping, COVID-19 & Battery Safety Plans
- **Optional Submissions**
 - Community & Outreach
 - Vehicle Pre-Qualification Video (In-Person Teams)



The graphic features a dark blue background. At the top center is a white circle containing a stylized blue and green submarine with a radio antenna. Below the circle, the text 'RoboSub 2022' is written in large white font, with 'Deliverables & Deadlines' in green below it. At the bottom left is a small green circular icon with a white robot head, followed by the URL 'robosub.org/2022' in white text.

RoboSub 2022
Deliverables & Deadlines

 robosub.org/2022



RoboSub 2022

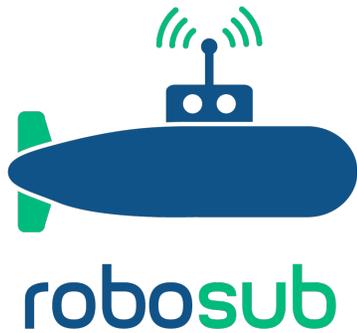
Pre-Qualification Video Update



robosub.org/2022

VEHICLE PRE-QUALIFICATION UPDATE

- Deadline extended to **July 17th**, midnight ET
- Submit to autonomy@robonation.org
 - Include vehicle name in email
 - Include link to video or attach the video file



Shipping



robosub.org/2022

SHIPPING

- Shipping Guidelines coming out today
- Ship directly to UMD
- Shipments cannot arrive before July 20

HOUSING

HOUSING – UMD Dorm Housing – Register by June 5, 2019

- *7-Day Dorm – Check-in: July 27 / Aug 3 (Single/Double Occupancy)(with or without breakfast)*
- *9-Day Dorm – Check-in: July 26 / Check-out: Aug 4 (Single/Double Occupancy)(with or without breakfast)*
 - *Dorm housing package includes 1 pillow, 1 pillowcase, 2 sheets, 1 blanket and 2 towels. Towels only may be exchanged daily at the Hospitality Desk.*
 - *Personal items such as soap, shampoo, toothpaste, hairdryers, and washcloths are not provided.*
 - *No mail service or daily bed linen changes are provided.*
 - *Bringing additional blanket is recommended as the dorms may be chilly.*
 - *These are standard college dorms with two extra-long twin beds per room. All rooms (including private rooms) have communal bathrooms on each floor (i.e., no private bathrooms).*
- *Lunch Package – Dining Hall All-You-Can-Eat lunches – 6 lunches - July 28, 29, 30, 31, 01, 02*
- *Cancellations - Before July 12 = 100% refund / After July 12 = No refund*



PARKING OVERNIGHT POOL USE

PARKING – On-Campus Parking - \$18 per weekday per vehicle (exempt on Saturday and Sunday)

OVERNIGHT POOL TESTING – RoboNation will provide overnight pool testing in the natatorium.
Testing times are still TBD.





Pool & Venue

 robosub.org/2022

25th Annual
RoboSub 2022
Pool & Venue



Credit: Anirudh Rawat



Credit: Anirudh Rawat



In/Out Water

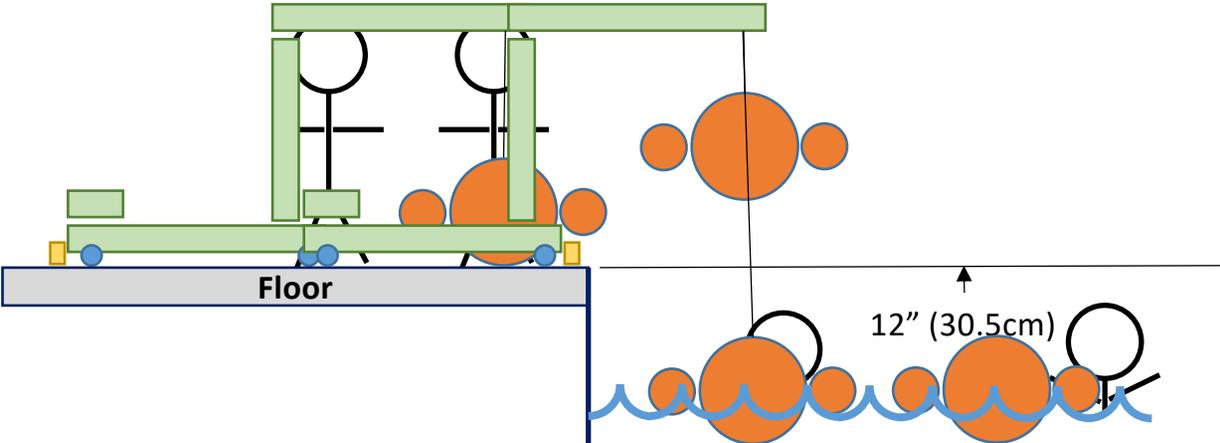


Cantilver Floor Crane

- Double Action hand pump
- Telescopic boom
- Steel casters with roller bearing wheels
- 1500 lb (680 kg) capacity
- Base: 75" x 33" (191cm x 84cm)



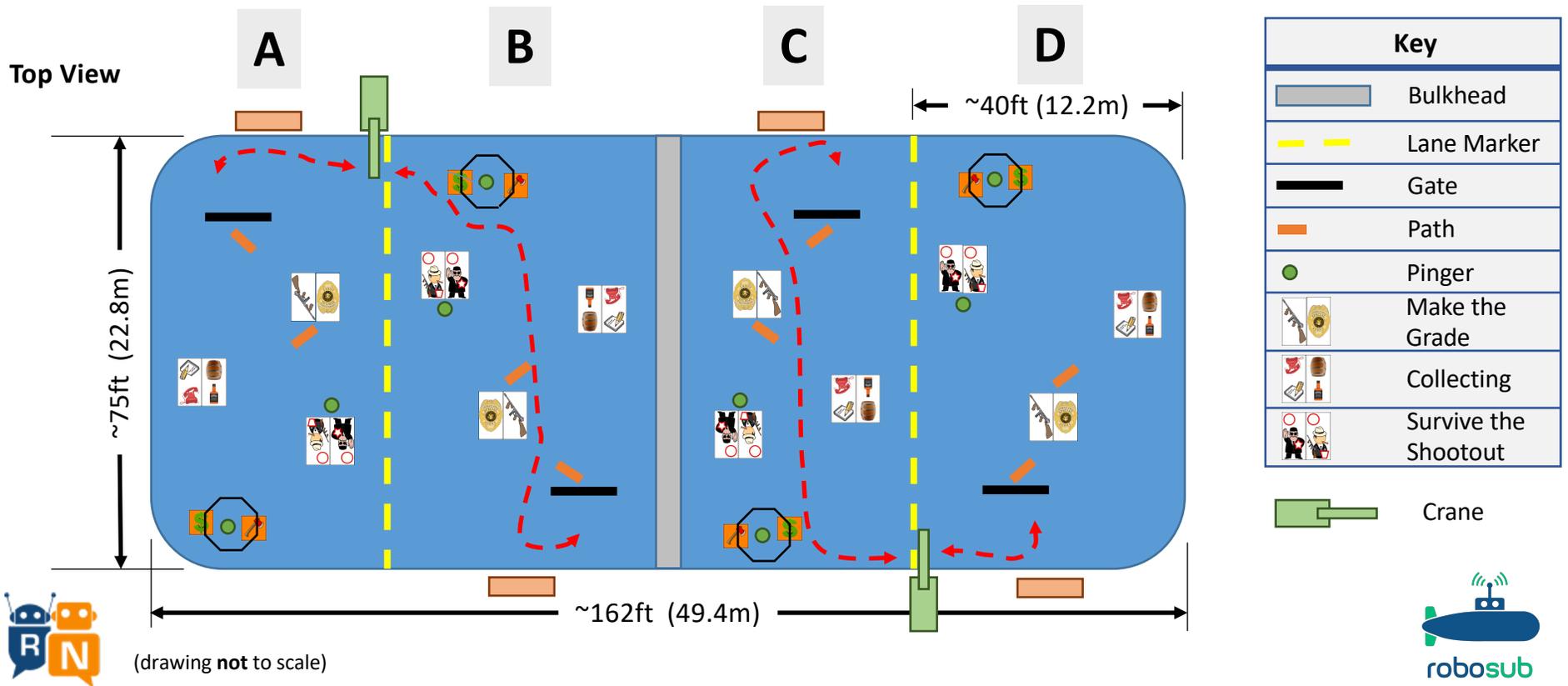
Crane Operation



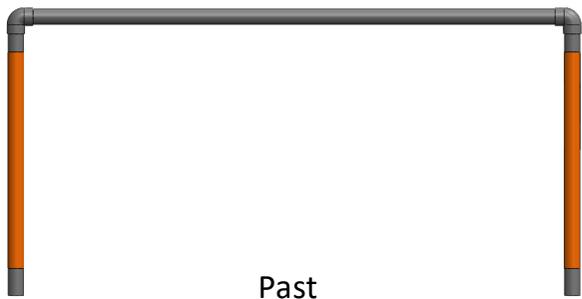
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Course Layout & Path from Crane

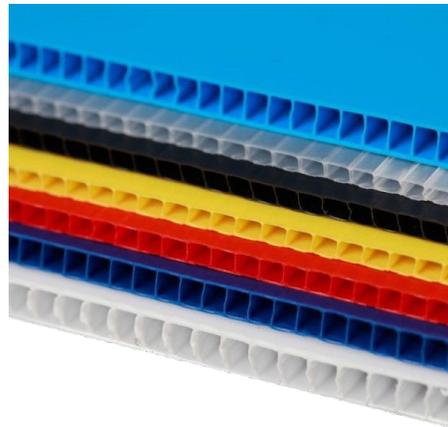


Gate Construction



3" PVC

3" Box



Modification #2

- Replace the vertical 3" PVC pipes with corrugated 3" box structure
 - Top 1 ft would be black
 - Lower 4 ft would be red



(drawing **not** to scale)



Bottles

~16oz

2.25x2.25x7in
(57x57x178mm)

A

2.25x2.25x8.2in
(57x57x208mm)

C

Product Size

171mm / 6.73"
165mm / 6.5"
165mm / 6.5"
20mm / 0.79"

6.5x6.5x6.73in
(165x165x171mm)

B

16oz Bottle A is the winner!

- **Purple** vinyl tape will be used to color the bottle
- They could be standing up, or laying on their side
- They will be flooded (the cap will be off). I don't think I need to add weight to them



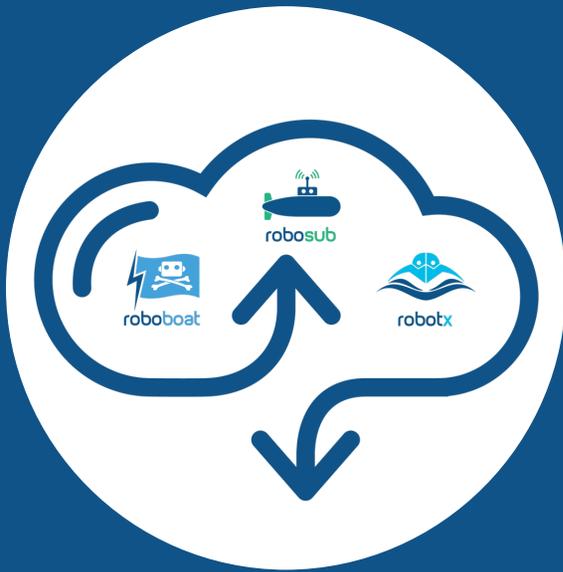


LOTS OF AVAILABLE RESOURCES!

Data Sharing

TeamTimes

Check RoboSub BAND & Forum



RoboSub 2022

Data Sharing

 robosub.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



RoboSub 2022

Announcements

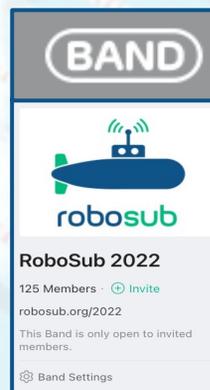
 robosub.org/2022

RoboSub TeamTime Meetings

Fridays @ 7PM ET

- 10 June
- 15 July

Sign up for the Band App



Hop on the RoboSub Band(wagon)!

 robosub.org/2022/band

Latest on the Forum

 robosub.org/forum

Question about Prequalification Gate #1

06-02-2022, 03:27 PM

According to the manual specifications, the gate for the gate task is 10 ft by 6 ft and the gate for the prequalification video is 6.6 ft wide and 3.3 ft below the surface. Is it necessary to build another gate or would it be okay for teams to use the gate used in the gate task?

06-02-2022, 11:18 PM #2

The prequalification is intended to be a bit harder than the qualification during the competition (which is why it's more narrow and submerged).

For consistency across all of the prequalification videos, you must use the dimensions for the prequalification gate. It can be something simple to represent those dimensions.





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RoboSub 2022

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Got Questions?

 Email
autonomy@robonation.org

 Discussion Forum
robonationforum.vbulletin.net



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