





- 1 Edit your name to "Name | Team Name"
- Let us know in the chat:

 Has your vehicle been in the water?



RoboSub 2023 Team Handbook Released

AGENDA

[18:00-18:10] Welcome / Introduction

[18:10-18:20] Accommodations

[18:30-18:40] Technical Update

[18:40-18:45] Are You Ready?

[18:45-19:00] Questions?











Theme, Venue, Dates



RoboSub.org/2023







Timeline



Timeline

Date/Deadline	Event
March 2 – April 1530	Registration
June 9, 2023	Event Submissions Deadline:
	Team Information
	On-Site Requirements
	Merchandise Order
June 11, 2023	Full 100% Refund Cancellation Deadline
June 16, 2023	Design Documentation Deadline:
	 Technical Design Report
	 Team Introduction Video
	Team Website
	 Optional Pre-Qualification
	 Optional Community & Outreach
July 25, 2023	50% Refund Cancellation Deadline
July 31 – August 6, 2023	RoboSub 2023





Reminders



Reminders!

Invitation Letter

- If your team members will be traveling from outside the USA and require visas, remember to apply early!
- If you need an invitation letter, submit the request in your registration in Survey Monkey Apply

First-Year Teams

First-year teams are eligible to participate without bringing an AUV to competition.





Design Documentation



Design Documentation Submissions

Instructions and scoring matrices are now available in the Team Handbook:

- Section 2.2: Design Documentation
- Appendix B: Technical Design Report (TDR)

Tips:

- Think about how easy your submission is to judge, from the judges' perspective.
- Websites Test it! Consider the user experience maneuvering your site and finding the required information.
- Intro Video Be creative! Share your competition approach while sharing your team's personality.
- Technical Design Report Get detailed! Review the requirements thoroughly and don't forget to outline your strategy and testing in detail.



RoboSub 2023 Logistics Update







ACCOMMODATION OPTIONS

RoboSub Hotels

Holiday Inn Bayside
The Dana on Mission Bay

Alternative Accommodation Options

Short Term Rentals – VRBO / AirBnB Benefits: Kitchen / Personal Pool





Accommodations



Holiday Inn Bayside

- Room Cost: \$239.00 plus 12.695% taxes (1-4 people / 2 queen beds) available on a first come / first served basis / Rooms must be pre-paid at the time of reservation. Cancellations allowed 48 hours prior to arrival with full refund. Credit card will be required upon check-in for incidentals.
- Reservation Cut-off: Friday, June 30, 2023. Group Rate cannot be guaranteed if the room block is sold out or after June 30, 2023.
- Reservation Dates Available 07/28/23 through 08/08/23 (space available)
- Reservation Link will be available soon.
- Parking Costs \$10/day per vehicle
- Overnight Pool Practice Hours 11:00 pm 6:00 am (07/31/23 08/05/23
- Complimentary WiFi / No Resort Fees
- Shipping Receipt/Storage 07/28/23 08/07/23. Crates must arrive no earlier than 07/28/23 and must be shipped out no later than 08/07/23 to avoid additional charges.



Accommodations



The Dana on Mission Bay

- Room Cost: \$229.00 plus 12.695% taxes (1-4 people / 2 queen beds) - available on a first come / first served basis / Rooms must be pre-paid at reservation. Cancellations allowed 48 hours prior to arrival with full refund. Credit card will be required upon checkin for incidentals.
- Reservation Cut-off: Friday, June 30, 2023. Group Rate cannot be guaranteed if the room block is sold out or after June 30, 2023.
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RoboSub 2023 Technical Update

Whirlpool X-treme





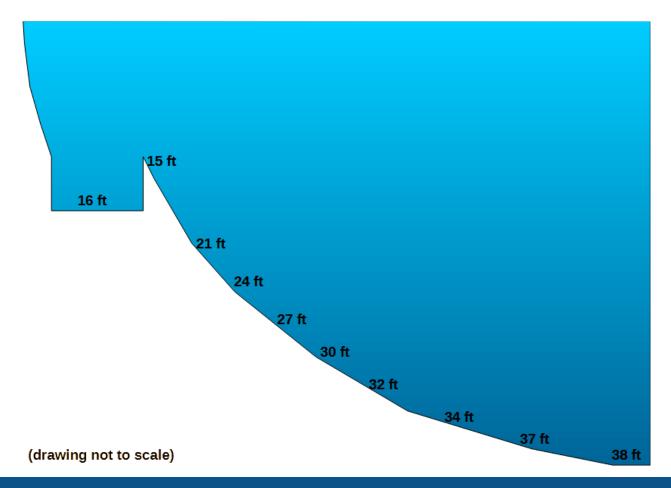
Location





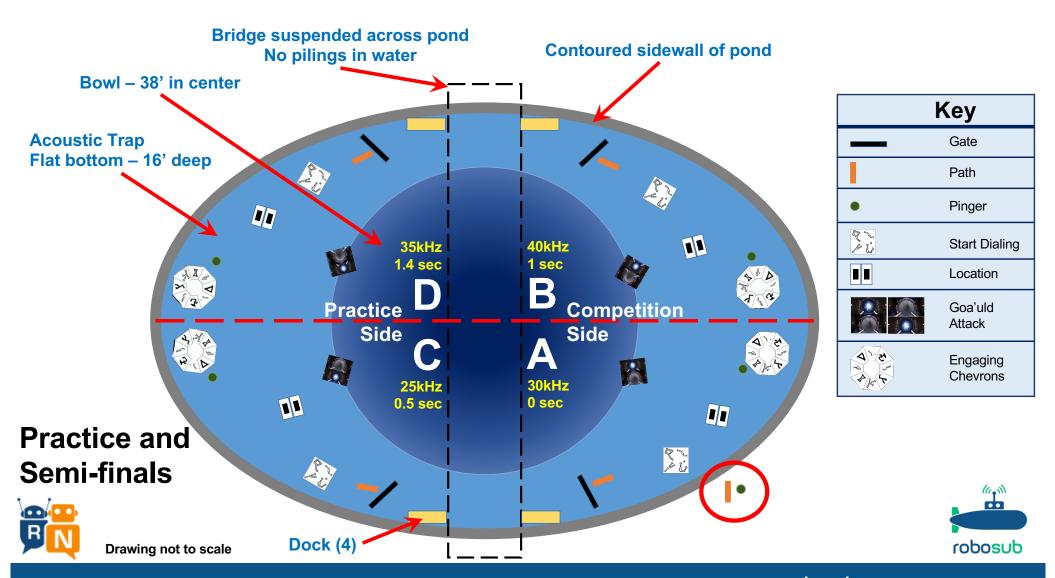


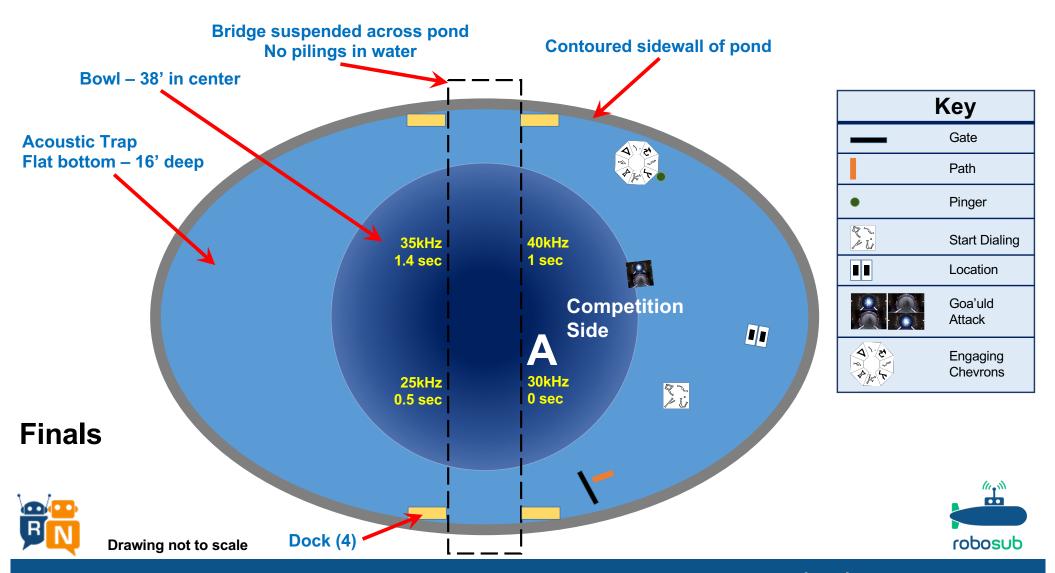
Depth



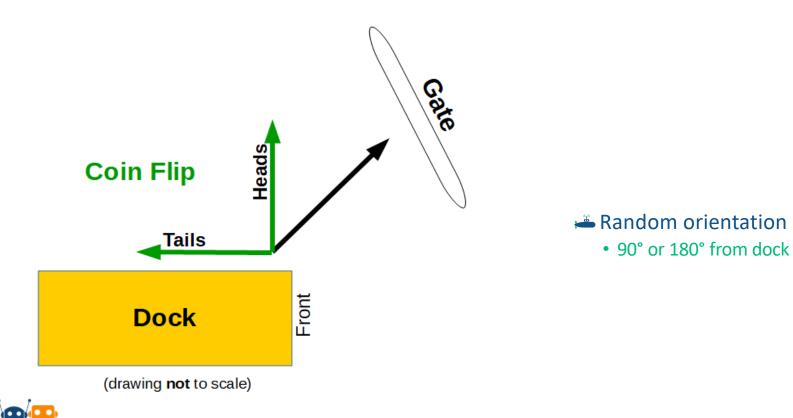




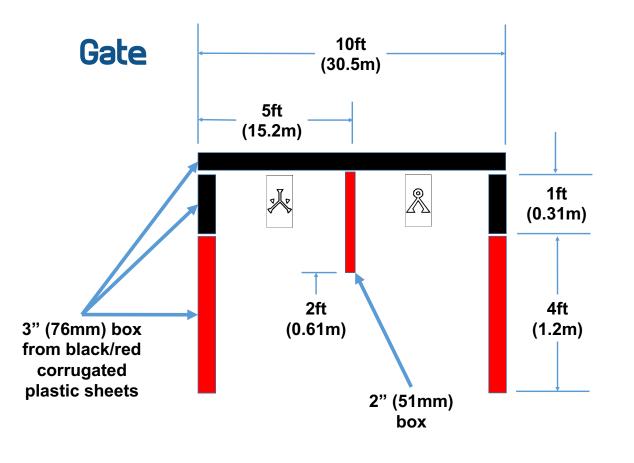




Oh for crying out loud | Coin Flip







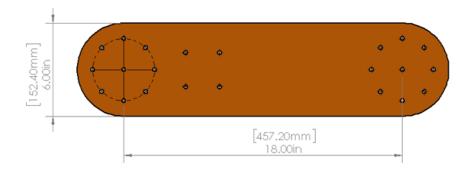
- Choose your destination
 - Abydos
 - Earth
- Extra points for staying with your destination for the remainder of the tasks
- New: Full scale images on Box

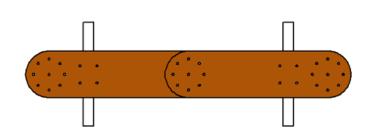
- With Style
 - 10 ft/3 m before/after gate
 - Extra points
 - Every 90° change in orientation
 - Yaw: +100
 - Roll/Pitch: +200
 - Up to 800 points

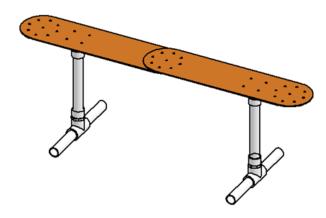


Drawing not to scale

Path



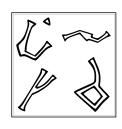


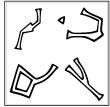




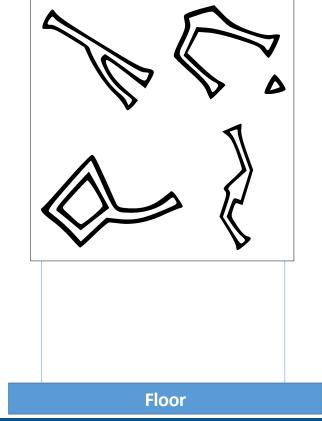
Start Dialing | Buoy







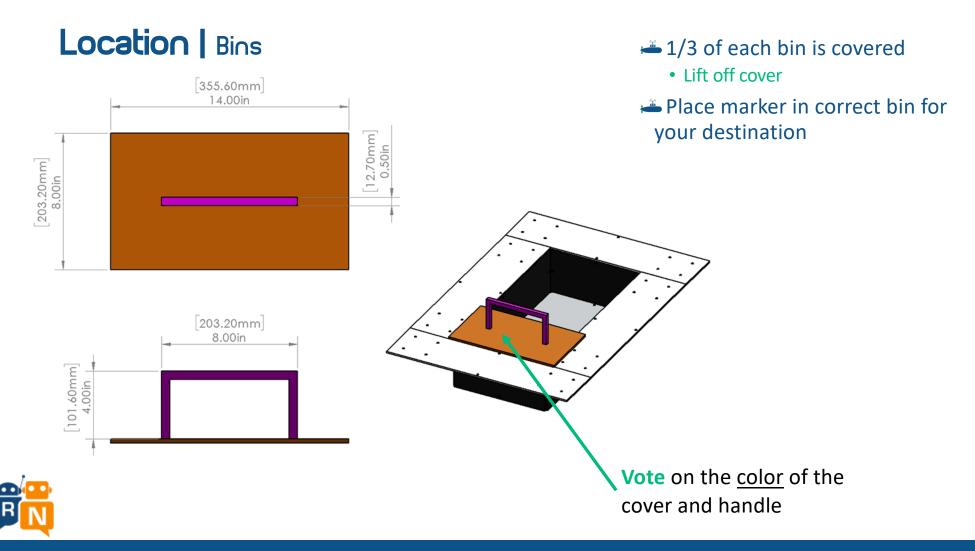
Find full scale images on Box



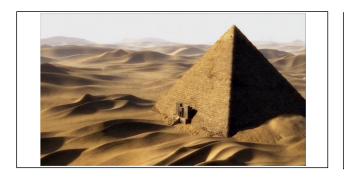




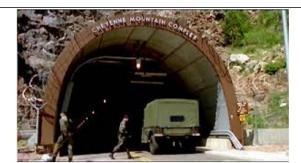
Drawing not to scale



Location | Bins





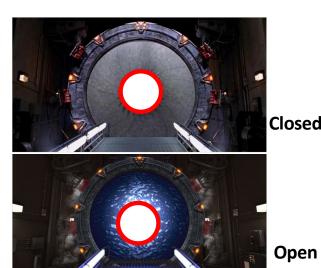


- ≤ 1/3 of each bin is covered
 - Cover can be anywhere
 - Lift off cover
- Place marker in correct bin for your destination
- New: Full scale images on Box

Abydos Earth



Goa'uld Attack | Torpedoes



Closed Open



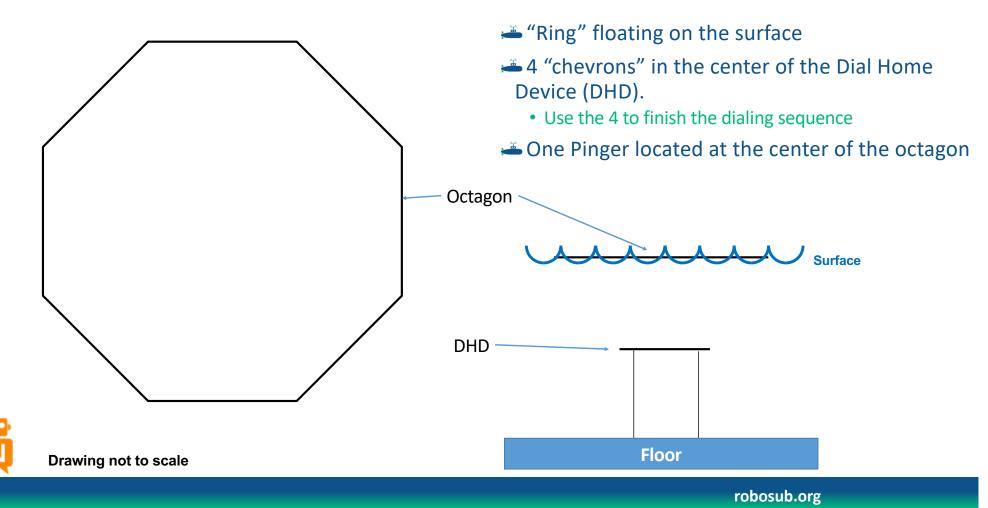
Closed

- The panel has two different openings
 - Close the Iris to stop the attack.
 - One torpedo through the open gate
 - One torpedo through the closed iris
- New: Full scale images on Box
 - Currently without the center circle

Vote on the <u>color</u> of circle

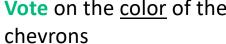


Engaging Chevrons | Octagon



DHD | Octagon

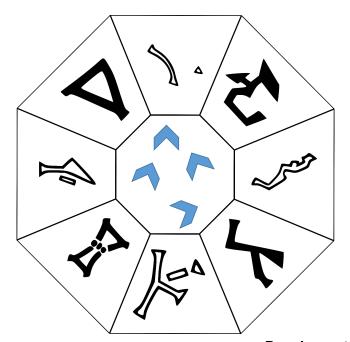
Vote on the <u>color</u> of the





- Place them in the correct bins to finish the sequence
 - Abydos
 - Earth





Drawing not to scale



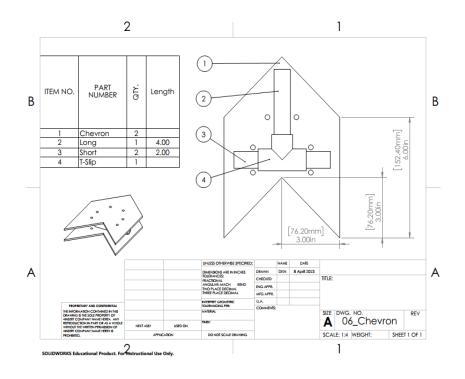
Earth







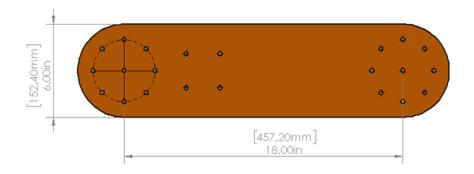
Chevrons





Finding the tasks

- Path
 - One from Gate to Start dialing (Buoy)
- Pinger
 - One located at the center of the octagon
- **∠ Vote** on the location of the second pinger
 - Location (Bins)
 - Goa'uld Attack (Torpedoes)
- Second path will point toward the other task

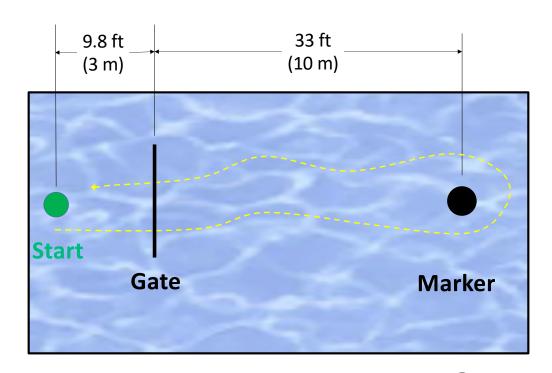


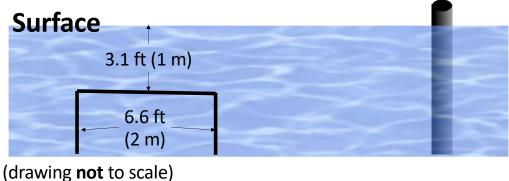


Pre-qualification

- Optional
- Must be submitted before being on-site at competition
- Directions on how to do this are available in the Team Handbook

TWO Teams have submitted pre-qual attempts!





robosub.org

RoboSub 2023 Final Reminders







Have you:

- □ Reviewed Task Ideas and Handbook?
- ☐ Registered & Paid?
- Reviewed your AUV Design Process?
- Started building your AUV?
- ☐ Test your AUV in water?





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



Stay in Touch



RoboSub 2023 Discord



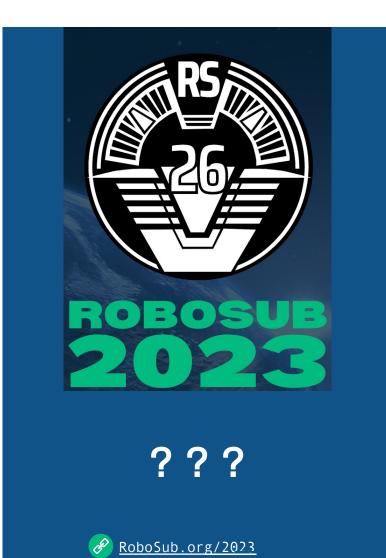
Replacing BAND and Forum. All on-site communications will be posted on Discord.

JOIN TODAY!

- Scan the QR Code
- Select the RoboSub23 role
- Turn on notifications

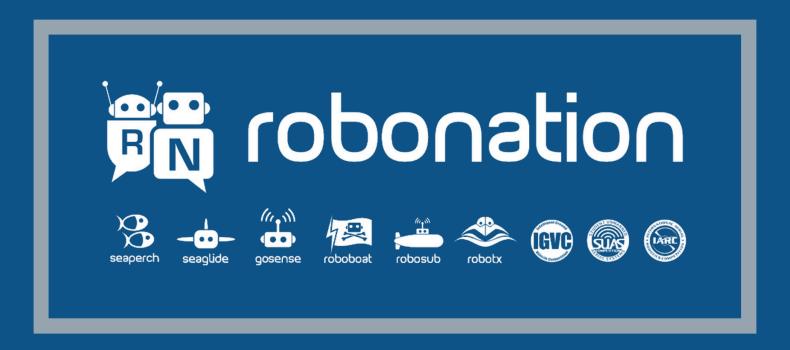






GOT QUESTIONS?





RoboNation is a 501c3 nonprofit organization whose mission is to provide a pathway of handson 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 autonomy@robonation.org