



Task Ideas Released

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?













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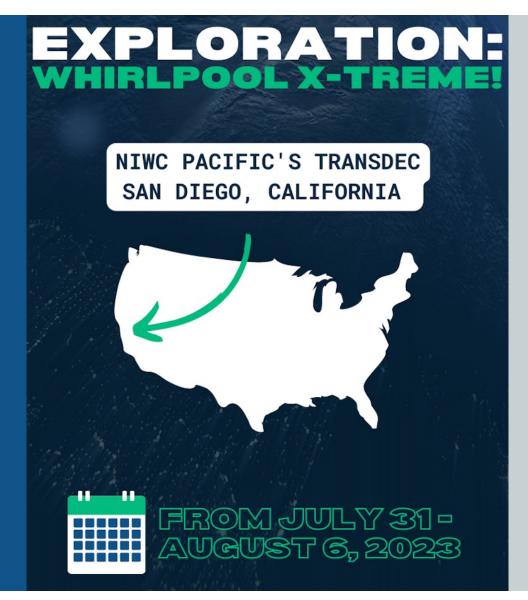




Theme, Venue, Dates



RoboSub.org/2023







Competition Structure





Autonomy Challenge

Build an AUV to showcase autonomous performance.



Design Documentation

Prepare documentation showcasing AUV design and competition strategy.

Design Documentation

- Team Website
- Technical Design Report
- Team Intro Video
- Design Presentation





Eligibility





All teams must build an AUV to compete; multiple vehicles may be entered 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.





NEW: First-Year Teams

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





RoboSub 2023

Preliminary Venue Layout



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HELLO, **TRANSDEC**! Here we come!!

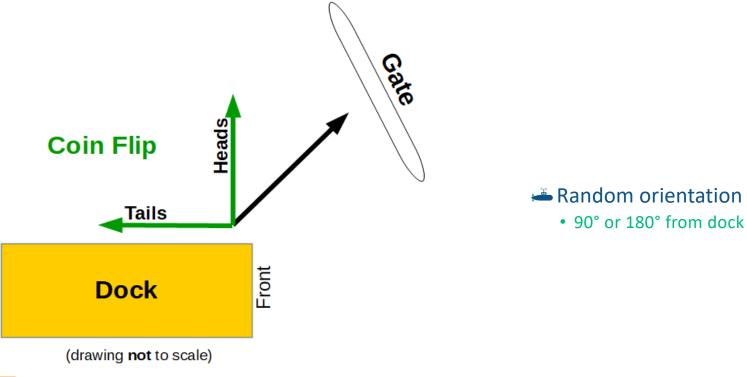
RoboSub 2023 Task Ideas

Whirlpool X-treme



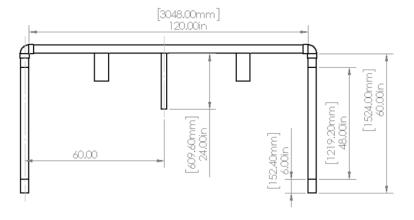


Oh for crying out loud | Coin Flip





Destination | Gate



- Choose your destination
 - Abydos
 - Earth
- Extra points for staying with your destination for the remainder of the tasks



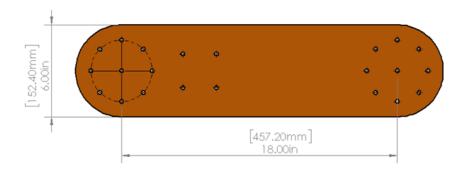


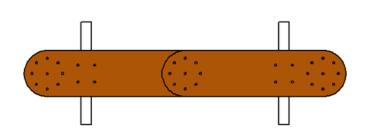


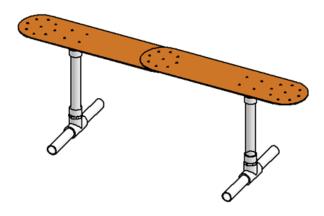
- 10 ft/3 m before/after gate
- Extra points
 - Every 90° change in orientation
 - Yaw: +100
 - Roll/Pitch: +200
 - Up to 800 points



Path



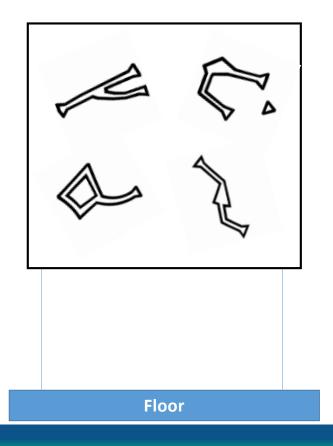






Start Dialing | Buoy

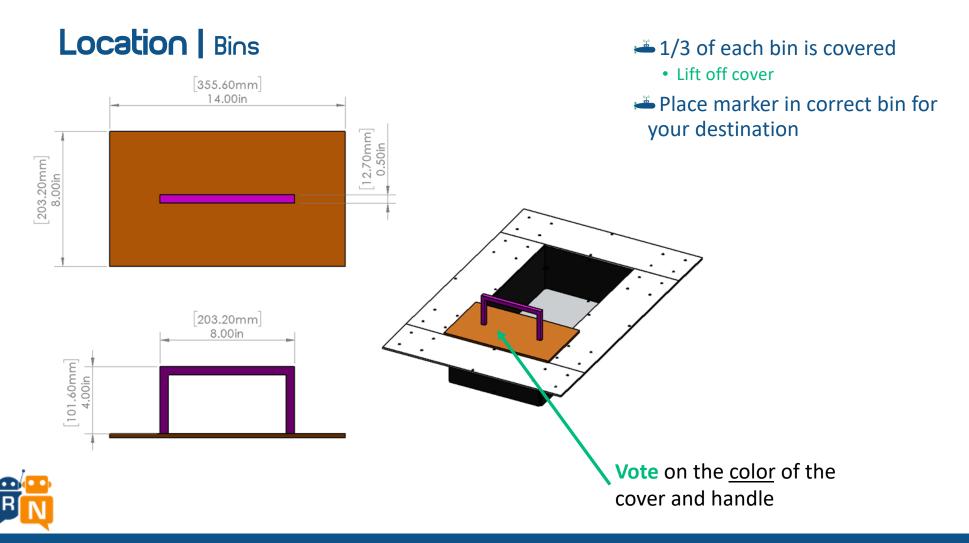
Buoy is two sided











Location | Bins





Abydos



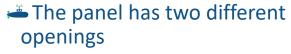
- [™] 1/3 of each bin is covered
 - Cover can be anywhere
 - Lift off cover
- Place marker in correct bin for your destination



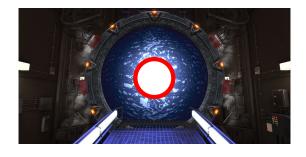
Goa'uld Attack | Torpedoes



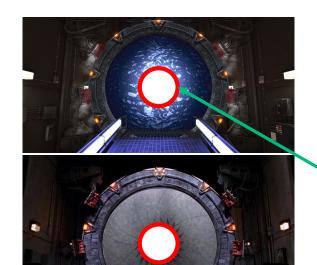
Closed



- Close the Iris to stop the attack.
- One torpedo through the open gate
- One torpedo through the closed iris



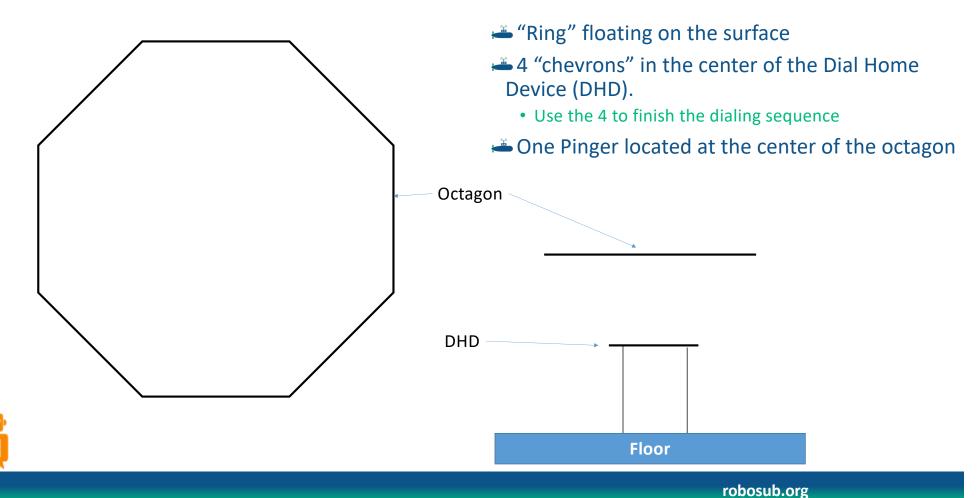
Open



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

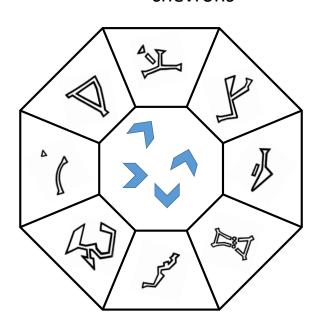


Engaging Chevrons | Octagon



DHD | Octagon

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





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



Earth

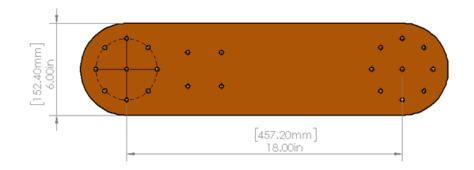






Finding the tasks

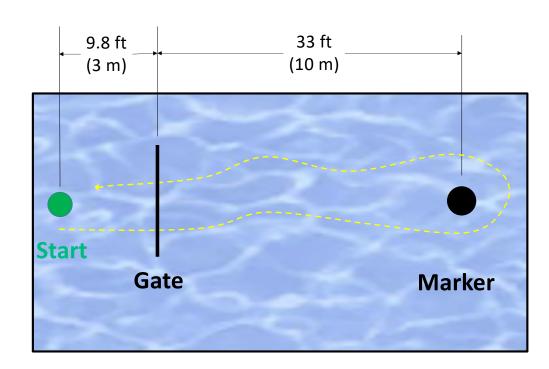
- Path
 - One from Gate to Start dialing (Buoy)
- Pinger
 - One located at the center of the octagon
- **∠ Vote** on the location of the second pinger
 - Location (Bins)
 - Goa'uld Attack (Torpedoes)
- Second path will point toward the other task

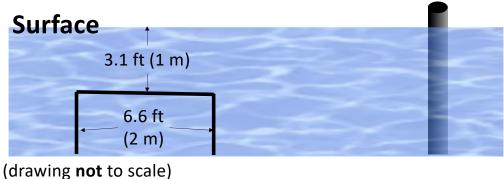




Pre-qualification

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



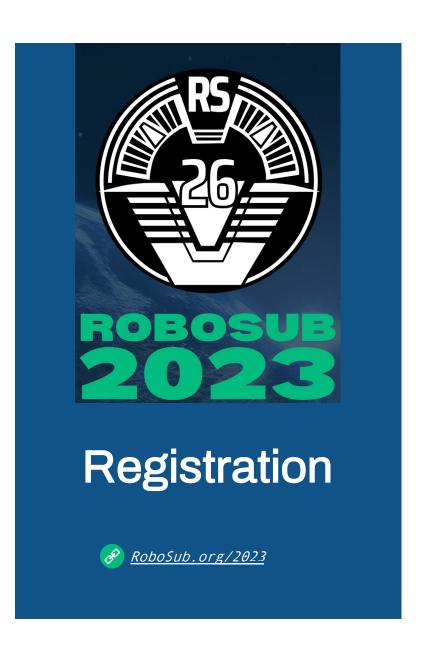




How to Get Started:

- Task Ideas
- Registration
- ☐ AUV Design Process
- ☐ TeamTime Meetings







→ RoboSub.org/2023





RoboSub 2023 TeamTime Meetings

- #1 17 March | Open to All
- #2 TBD Late April | Registered Teams
- #3 TBD July | Registered Teams





Timeline



Date/Deadline	Event
March 2 – April 15, 2023	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





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







What is Data Sharing?



Centralized Repository



Community Driven



Competition focused

Vision
Acoustics
Mechanical Designs
Electrical Designs



DATA FOR ALL TEAMS



LARGE DOMAIN OF DATASETS

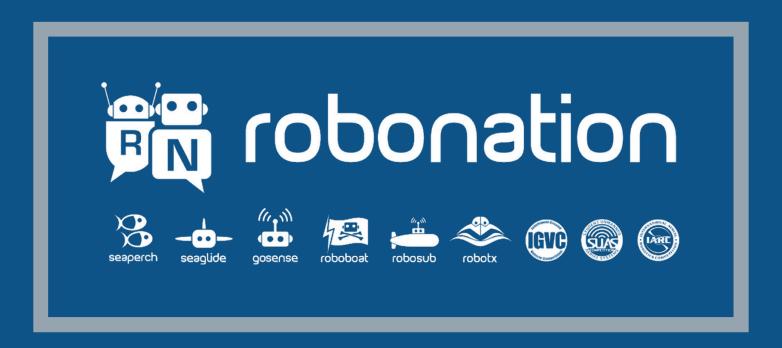


BETTER PLATFORM FOR NEW TEAMS



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 university-competitions@robonation.org