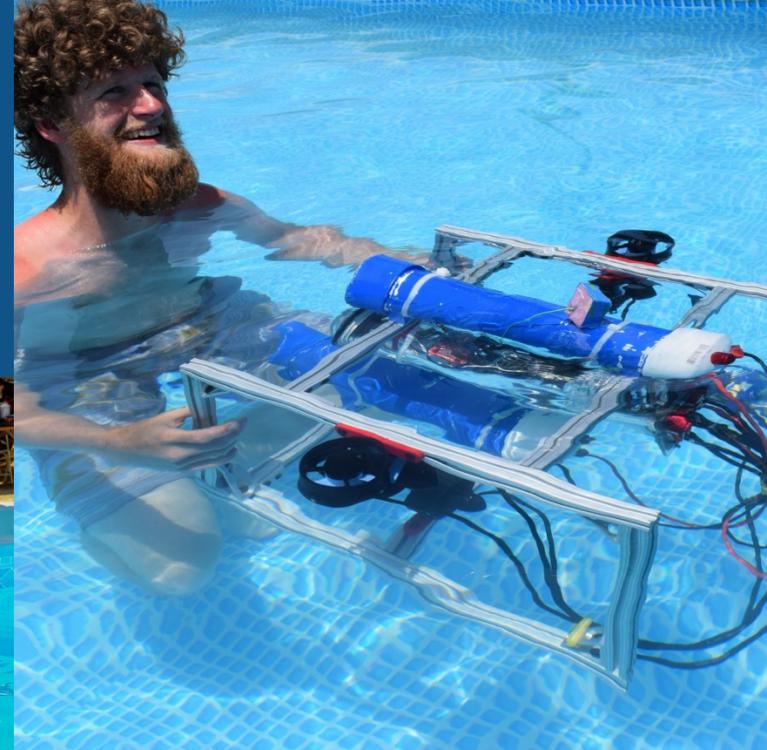




COMMUNITY HOUR

for university competitions





Welcome to the community!

GET
STARTED

AGENDA

- [7:00-7:10] Welcome
- [7:10-7:15] Engagement Opportunities This Month
- [7:15-7:40] RoboBoat & RoboSub Submissions –
Judges' Perspective
- [7:40-7:45] RobotX WAM-V Submissions –
Reviewer's Perspective
- [7:45-7:55] Questions?

1 Edit your name to "Name | Team"

2 Let us know in the chat:

What's your favorite class you're taking this semester?

What's the temperature from where you're joining? (Include Fahrenheit or Celsius!)



Engagement Opportunities This Month



XPONENTIAL Conference

May 04 - 06

- **Two (2) Full-Conference Passes Available!**
- **Help maintain RoboNation booth for 2 two-hour shifts → access to:**
 - Keynotes
 - Roundtables
 - Networking
 - Education Sessions



T-Shirt Design Contest

Due May 09

- Multiple submissions are welcome
- Must utilize competition logo and the 2 brand colors
- All half-baked ideas welcome!



Volunteer at the SeaPerch Virtual Event

June 04 - 05

- **Volunteer Opportunities:**
 - Judge
 - Session Moderator
 - Discussion Facilitator
 - Hands-on Technical Mentor



Sign up!
University-competitions@robonation.org



Submit your designs!
roboboast.org/t-shirts



robosub.org/t-shirts



Sign up!
robonation.org/volunteer





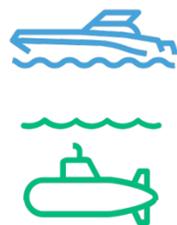
Submissions



Skills Video(s)



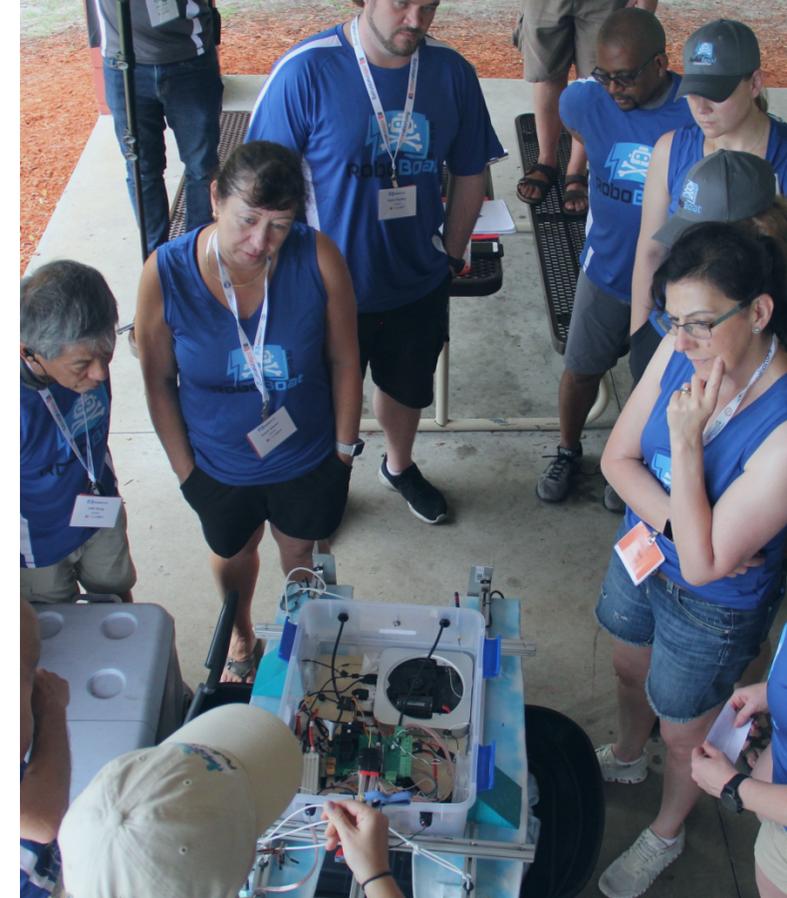
Technical Design Report



optional Demonstration Video



Website





Judges' Perspective

Systems Engineering 101

- **WHY** are you doing this?
- **WHAT** are you going to do to best meet the objectives?
- **HOW** will you achieve what you intend to do?
- **HOW WELL** – How will you know if you have achieved your objectives?





Judges' Perspective

WHY are you doing this?

- To compete effectively per the rules of the competition
- To learn something
- To demonstrate to others that you know something
- To teach others





Judges' Perspective

WHAT are you going to do to best meet the objectives?

- What tasks will you attempt?
- What is your list of requirements to meet the tasks?
 - ...I need a platform to hold my 'stuff'
 - ...My platform needs to move in the water or air
 - ...My platform needs to, etc...
- What are the 'derived requirements'?

WHY? To compete effectively per the rules of the competition





Judges' Perspective

HOW will you achieve what you intend to do?

- Most engineers want to start here – PLEASE DON'T!
- Once you decide how you will accomplish something, you are fixing a path from which it may cost much (time, money, other resources) to recover

IF I CAN GET YOU TO UNDERSTAND ONE THING FROM THIS PRESENTATION IT'S THIS:

DON'T START WITH THE HOW





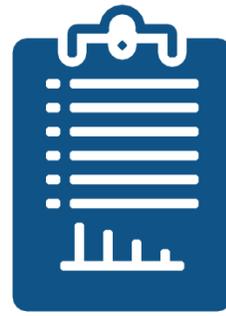
Judges' Perspective

HOW WELL - How will you know if you have achieved your objectives?

- Testing
- Measuring
- Personal satisfaction
- Year over year improvement
- Judges' feedback

This last bullet is likely what may be of interest to you...





Technical Design Report

- Follow the guidelines provided in the rules
- Tell us a story...don't simply give us a lists of parts
- Don't tell us the, "Thigh bone is connected to the hip bone, the hip bone's connected to the spinal column."
- Tell us why you made the choices you made
- Include graphics and photos
- Get a technical editor if you are unsure of your writing capabilities
- Have someone who has not written the paper proof-read it for spelling and grammar errors

Judges' Perspective





 roboboast.org/2021#resources

 robosub.org/2021#resources

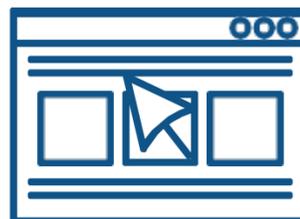
Judges' Perspective

Skills Video(s)

- Follow the guidelines provided in the rules
- Tell us a story...don't simply give us a lists of parts
- Tell us how you did it, including any failed attempts
- Think about any "how to" video you have seen on YouTube
 - What did you like?
 - What was hard to follow?
- Use visual aids, such as signs, or add captions to any audio information that is not perfectly clear.
- Show a general approach, but then perhaps provide a 'deep dive' to add clarity or show some detail

***Our goal is to create a video library
from which future generations may learn.***





roboboat.org/2021#resources



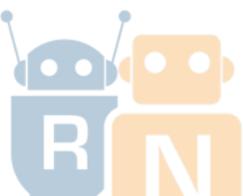
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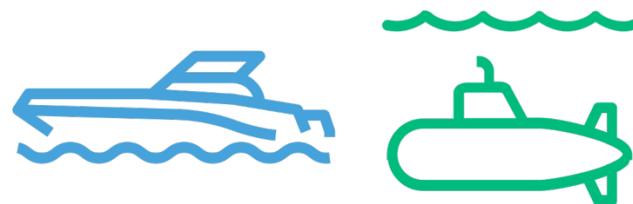
Judges' Perspective

Website

- Follow the guidelines provided in the rules
- Treat this as an opportunity to advertise who you are and what your team can do
- Use this venue to promote yourselves
 - Include resumes of team members
 - Include any papers your team or members have had published
 - Include video products
 - Include any engineering products you created during your design process
- Acknowledge and thank your sponsors and supporters
 - Funding and other contributions
 - Mentorship
- Avoid flash and clutter

***Clean up and archive
previous versions of your website.***





 roboboat.org/2021#resources

 robosub.org/2021#resources

Judges' Perspective

Optional Demonstration Video

- Share your fun with us
- Show us what you did and what you learned, even if it's only one task
- Tell us how you set up your task environment
- Acknowledge and thank your sponsors and supporters
- Consider this an opportunity to practice for preliminary qualifications for future events
- BE CREATIVE!!!

*Won't be officially judged,
but may earn a special Judges' Award?*





WAM-V Applications



- Follow the guidelines provided in the application announcement.
- Consider this as you might a small start-up company
- We want to know that you have the technical capability to compete at RobotX
- We want to understand that RoboNation's investment in your team will find additional support for all you will need beyond the WAM-V platform
- Share your plan to recruit all the talent you will need to be successful in Sydney in 2022
- Convince us that your team has the potential to be great!

Submit your application by 30 April 2021





May Community Hour: May 15 @ 12:00pm EDT
robonation.org/community-hour



Got questions?



Email
university-competitions@robonation.org



Forum
robonationforum.vbulletin.net

