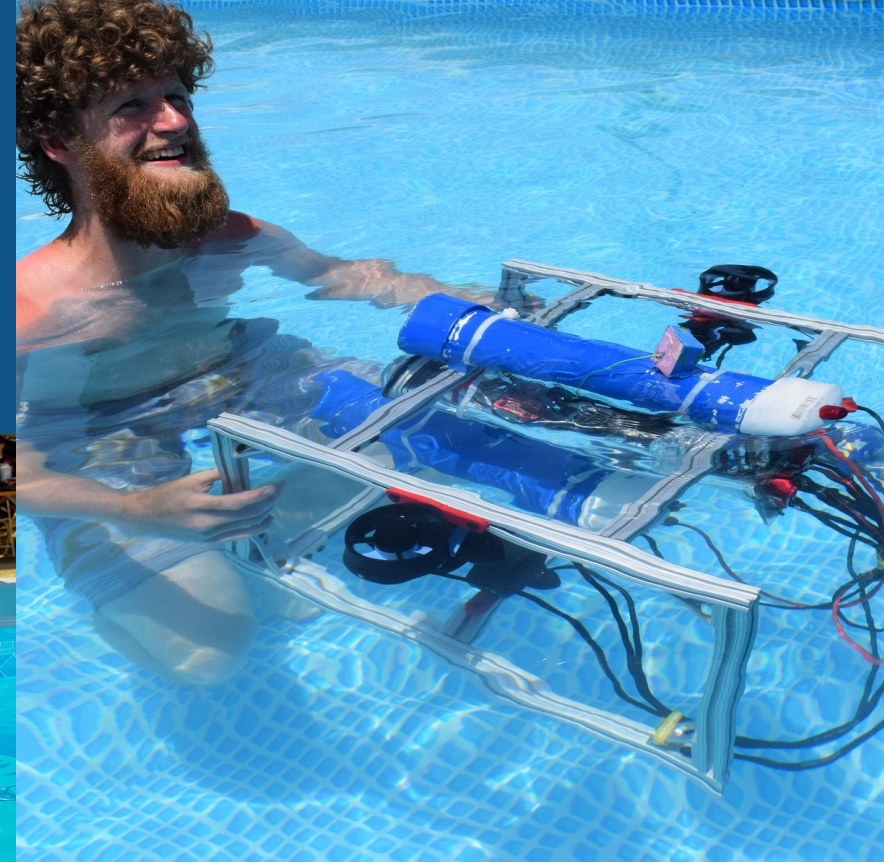


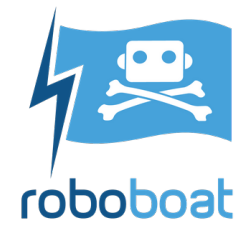


# COMMUNITY HOUR

for university competitions







# Welcome to the community!

GET  
STARTED

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!)

## AGENDA

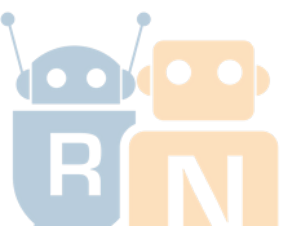
[ 7 : 00 - 7 : 10 ] Welcome

[ 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?



# 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](mailto:University-competitions@robonation.org)



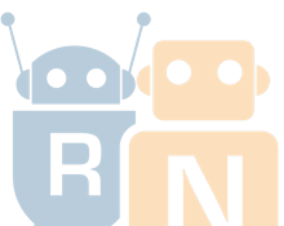
**Submit your designs!**  
[roboboat.org/t-shirts](http://roboboat.org/t-shirts)



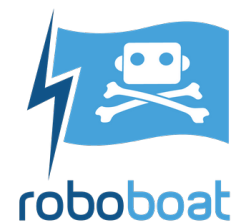
[robosub.org/t-shirts](http://robosub.org/t-shirts)



**Sign up!**  
[robonation.org/volunteer](http://robonation.org/volunteer)







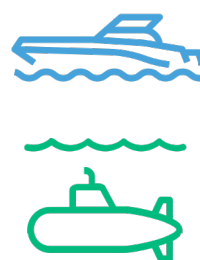
# Submissions



Skills Video(s)



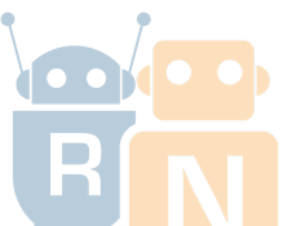
Technical  
Design  
Report



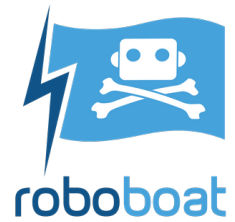
optional  
Demonstration  
Video



Website



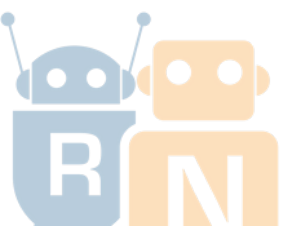




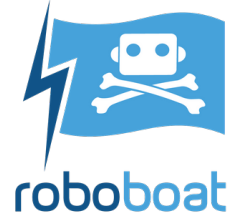
## Systems Engineering 101

- **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



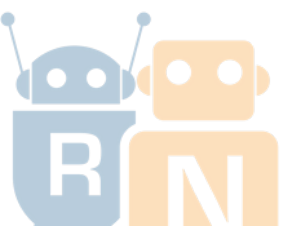




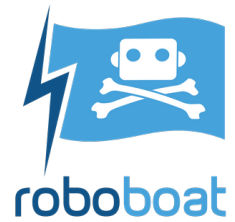
# Judges' Perspective

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





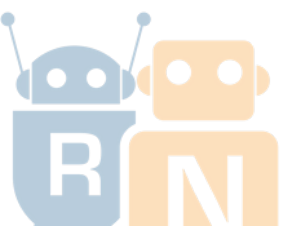


# Judges' Perspective

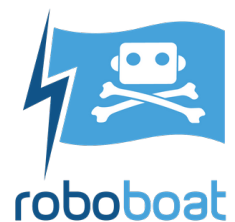
WHAT are you going to do to best meet the objectives?

- 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'?

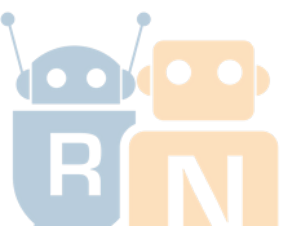
*WHY? To compete effectively per the rules of the competition*







# Judges' Perspective

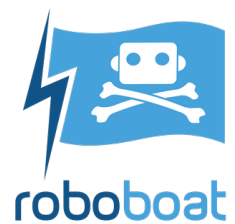


HOW will you achieve what you intend to do?

- 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**

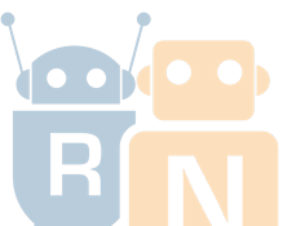


# Judges' Perspective

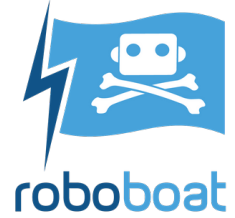
HOW WELL – How will you know if you have achieved your objectives?

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

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



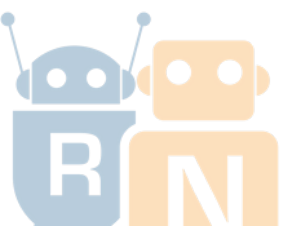


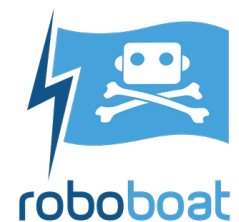


## Technical Design Report

- 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](https://roboboast.org/2021#resources)



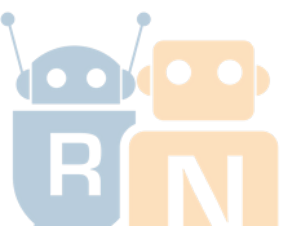
[robosub.org/2021#resources](https://robosub.org/2021#resources)

# Judges' Perspective

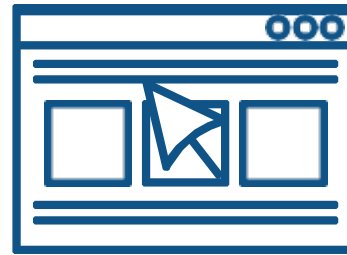
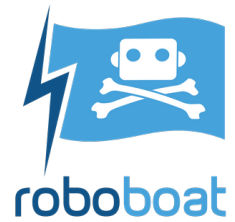
## Skills Video(s)

- 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.***







[roboboast.org/2021#resources](https://roboboast.org/2021#resources)



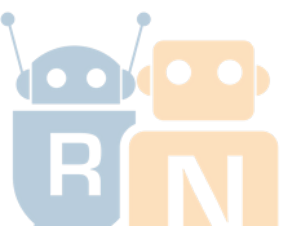
[robosub.org/2021#resources](https://robosub.org/2021#resources)

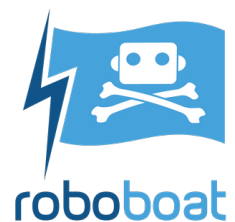
# Judges' Perspective

## 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.***





[roboboast.org/2021#resources](https://roboboast.org/2021#resources)



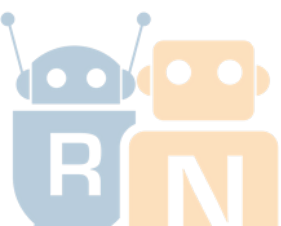
[robosub.org/2021#resources](https://robosub.org/2021#resources)

# 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?*





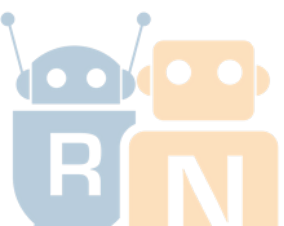


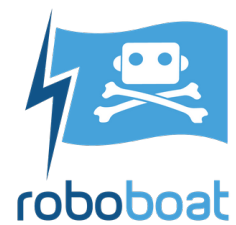
## WAM-V Applications



- 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](https://robonation.org/community-hour)



# Got questions?



Email

[university-competitions@robonation.org](mailto:university-competitions@robonation.org)



Forum

[robonationforum.vbulletin.net](https://robonationforum.vbulletin.net)

