FIRST® Core Values

DISCOVERY
We explore new skills and ideas.

INNOVATION
We use creativity and persistence to solve problems.

IMPACT
We apply what we learn to improve our world.

TEAMWORK
We are stronger when we work together.

INCLUSION
We respect each other and embrace our differences.

FUN
We enjoy and celebrate what we do!

Discovery - What we learned.

Robot Design:

- How to code in python
- How to build attachments, passive and motorized
- That batteries age differently and not interchangeable

Innovation:

- We learned about a non-profit organization called SkyTruth that uses satellite data to track oil pollution in the sea. Mostly waste oil purposefully dumped by huge ships and other illegal oil company behavior!
- We learned that only 5% of the ocean has been discovered. This helped us decide to focus on an AUV that collects data for areas of the ocean that have not been explored.

NOAA

Kitware

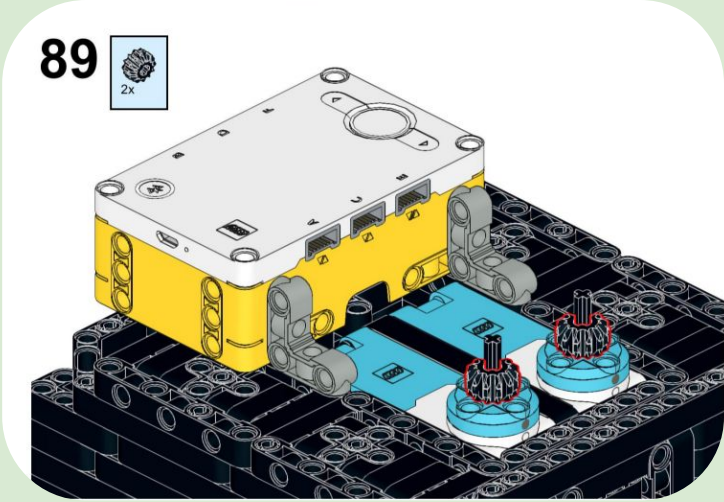
Innovation - What we did that is unique or creative.

Robot Design:

- We made passive and motorized attachments (Waterslide and Gonzo)
- A team member reversed engineered last bot, created instructions using Bricklink for new members to understand its design
- A new way to monitor the battery levels for optimal performance

Innovation:

- We've created a form to gather information from individuals to save
- We created a 3d printed version of the OTC using a model created in Fusion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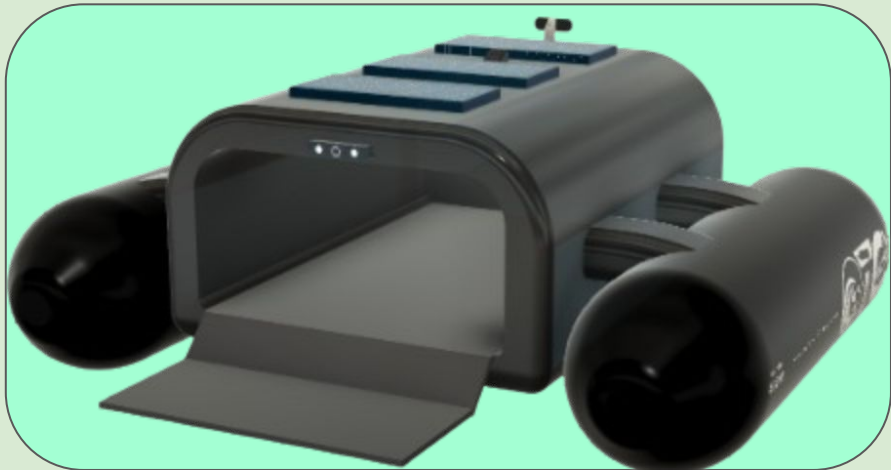


Impact : What we do outside the team to help others?

Robot Design:

- Helped the club teams (Snake Bytes and the Roboteers) prepare for a rumble on 11/16
- We hosted the First Explore Expo for 33 elementary teams in Shen and while we were there we taught kids how to code in block.
- Teaching Shen students in 6th grade tech how to block code

Innovation:

- Used the robot rumble to show people our solution and gather feedback. We used a poster board and asked people to do our survey to collect data and information.
- We shared our idea with other FLL teams and with Experts
- We gave other FLL teams feedback on their innovation project

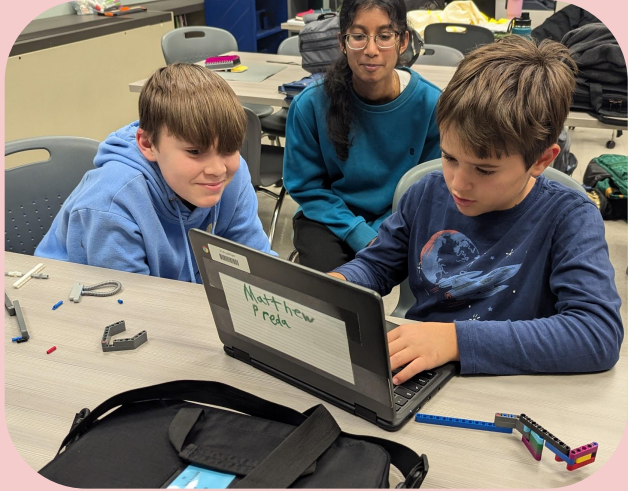
Teamwork - How we work together?

Robot Design:

- Each of the newer team members broke apart a bot and rebuilt it so all of them understand how the bot(s) worked
- Helped each other code
- Worked in teams on missions

Innovation:

- We worked in small groups to research various ideas
- We worked on our skit in small groups


Matthew
Preda

Inclusion - How we make sure that everyone is included.

General:

- Everyone had a leadership role
- Every meeting started with an agenda so would everyone had knowledge of what our progress on tasks were.
- Every meeting we switched roles and did half of innovation and half of robot game.

Robot Design:

- Voted on missions.
- Everyone was assigned a mission and attachments

Innovation:

- Everyone participated in brainstorming.
- We voted after down selecting to a few ideas.


STEM


STEM
GAP

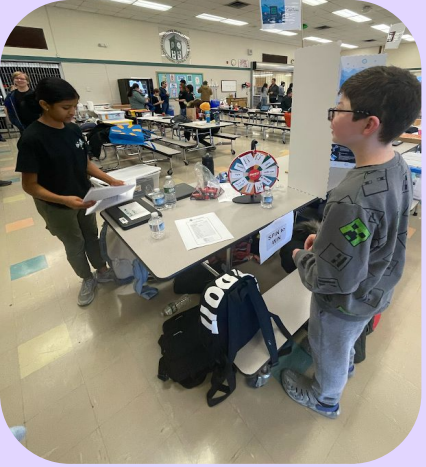
Fun - What we do for fun.

General:

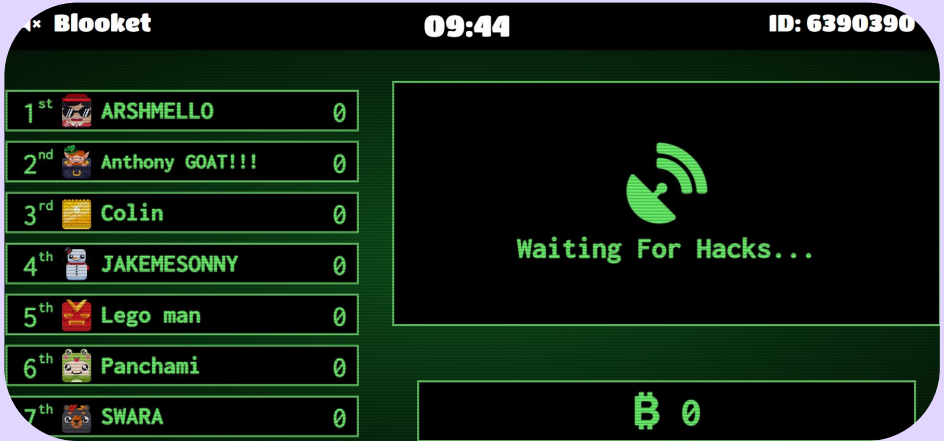
- Creating funny memes and things that represent us as a team
- Designed characters for each of our team members (cyrobots)

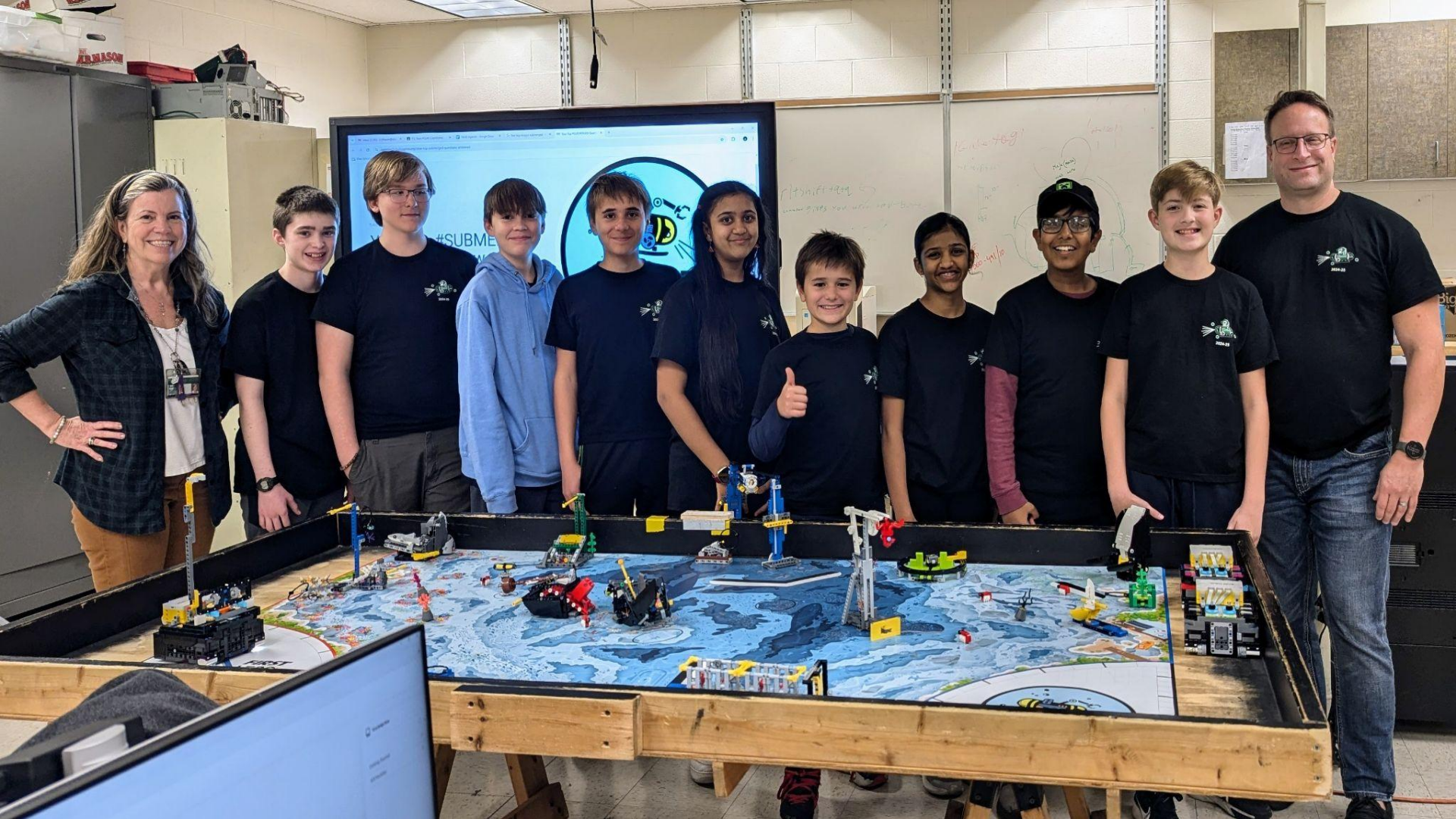
Robot Design and Innovation

- Games such as Jeopardy, Blooket, and Gimkit to learn about robot game, pollution, and the ocean
- Running the spinner wheel at the Rumble, Qualifier, and the Explore Expo
- Asking people to participate in our survey for innovation and we had tons of fun showing them and asking them
- We went to the VIA Aquarium and helped us get a idea of how we can maybe change our solution
- The team created clever jig for every time the Kriller attachment is mentioned.



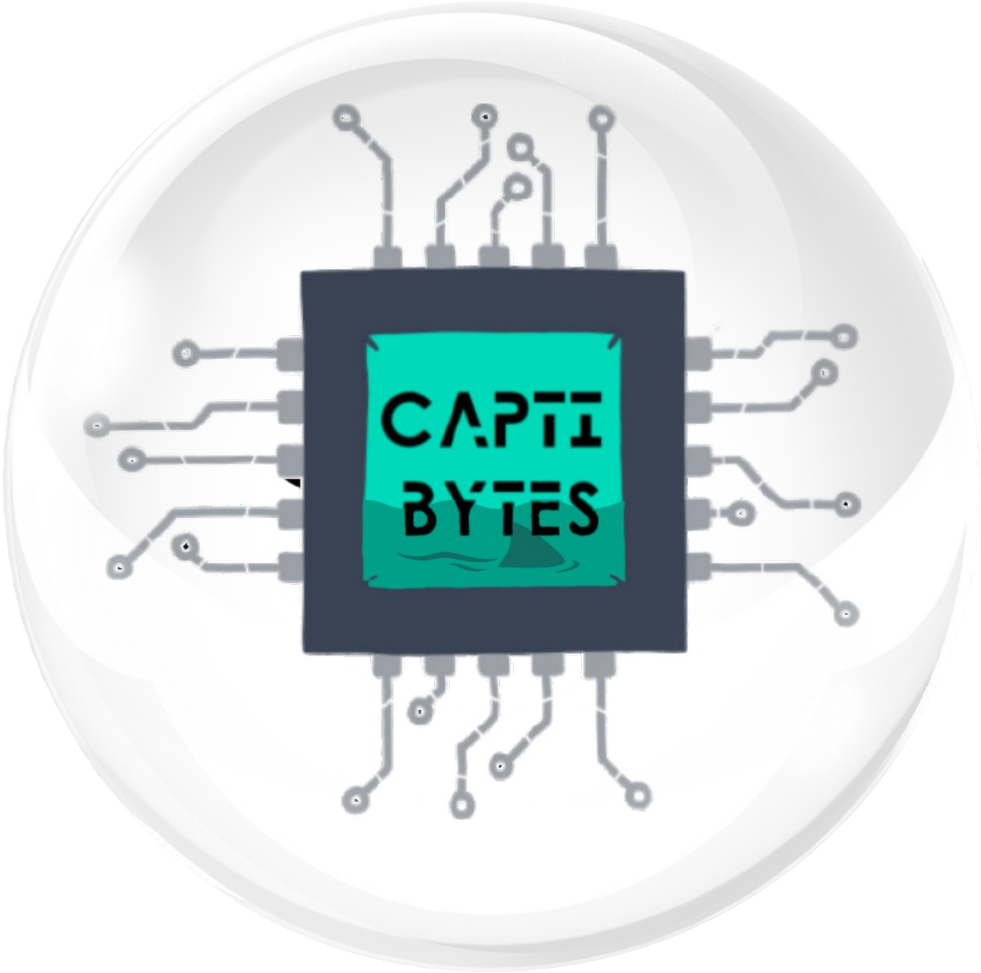

1st
JAKEMESONNY
฿ 28,669,432
2nd
yuhan
฿ 6,583,234
3rd
Anthony First
฿ 4,835,187


Blooket
09:44
ID: 6390390
1st ARSHMELLO 0
2nd Anthony GOAT!!! 0
3rd Colin 0
4th JAKEMESONNY 0
5th Lego man 0
6th Panchami 0
7th SWARA 0
Waiting For Hacks...
฿ 0



Impact: Shenendehowa FLL Robot Rumble

Impact: FIRST Explore Expo January 25, 2025


CAPTI
BYTES