

WE ARE



LEHIGH UNDERWATER ROBOTICS



SPONSORSHIP KIT 2021

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ABOUT US

OUR MISSION

Lehigh Underwater Robotics aims to provide students with hands-on experience in the design, building, and testing of underwater drones. We aspire to provide engagement in various interdisciplinary underwater robotics projects that involve software development, mechanical engineering, electrical engineering, and business management. Additionally, Lehigh Underwater Robotics provides community engagement and outreach activities through these projects to inspire the next generation of engineers in underwater robotics.

WHO WE ARE

We are a student-driven research group at Lehigh University. Our team is composed of both undergraduate and graduate students from a variety of different backgrounds. Our group was founded in 2021 as part of Lehigh's Summer Mountaintop Experience and has since been modified to become a permanent research group on campus.



OUR TEAM

We are split into 4 subteams: software, electrical, mechanical and business.

SOFTWARE

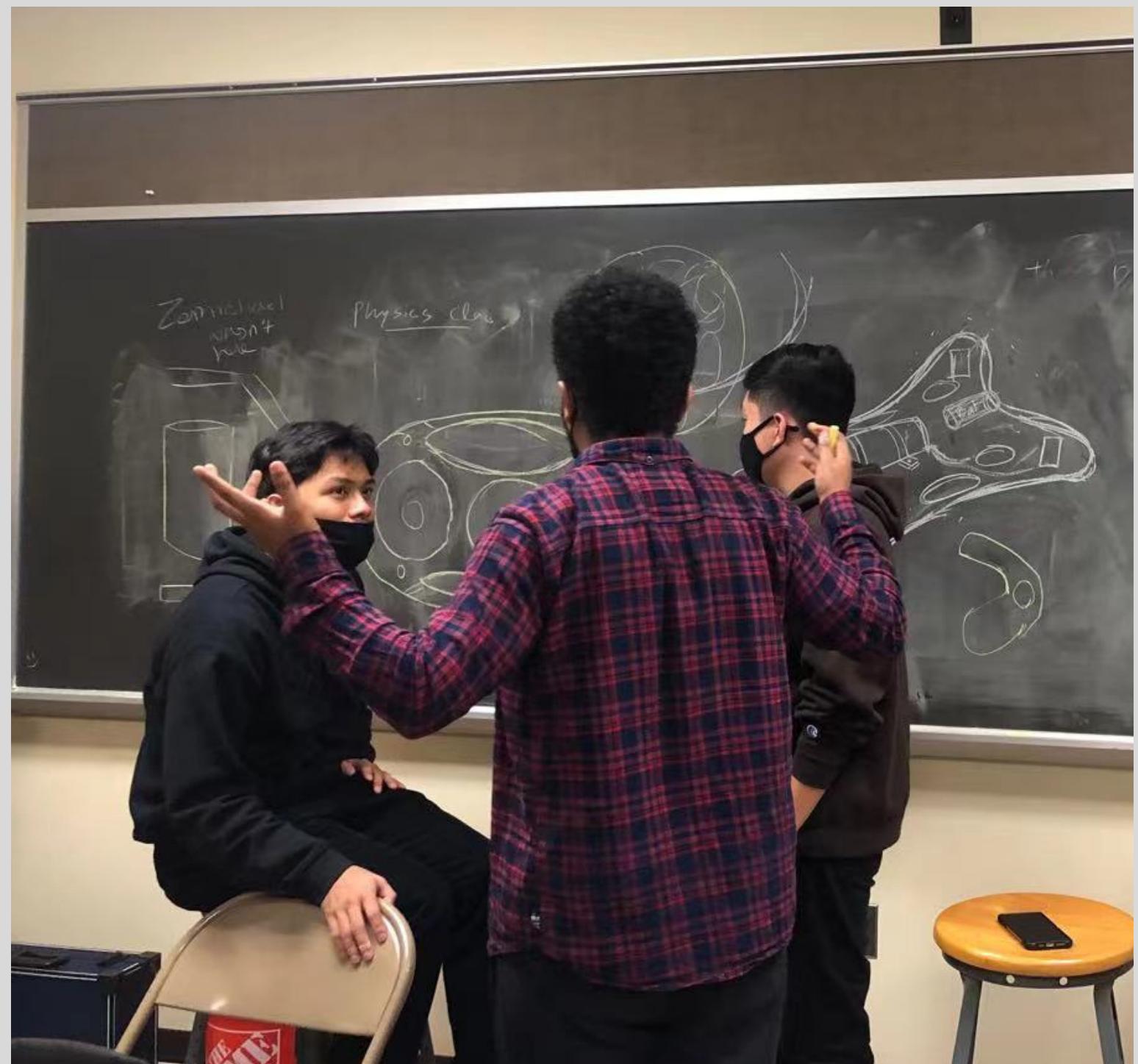
The software team is responsible for programming the drone to complete the tasks. They have to be able to integrate their code with the physical aspects of the drone from the electrical/hardware team

BUSINESS

The business team is responsible for maintaining our social media and website. They reach out and keep in contact with our sponsors and manage our finances.

ELECTRICAL

The electrical team is responsible for planning and installing the electrical components of the drone. They work with the hardware team to add their components to the drone and ensure that our software is able to run on it.



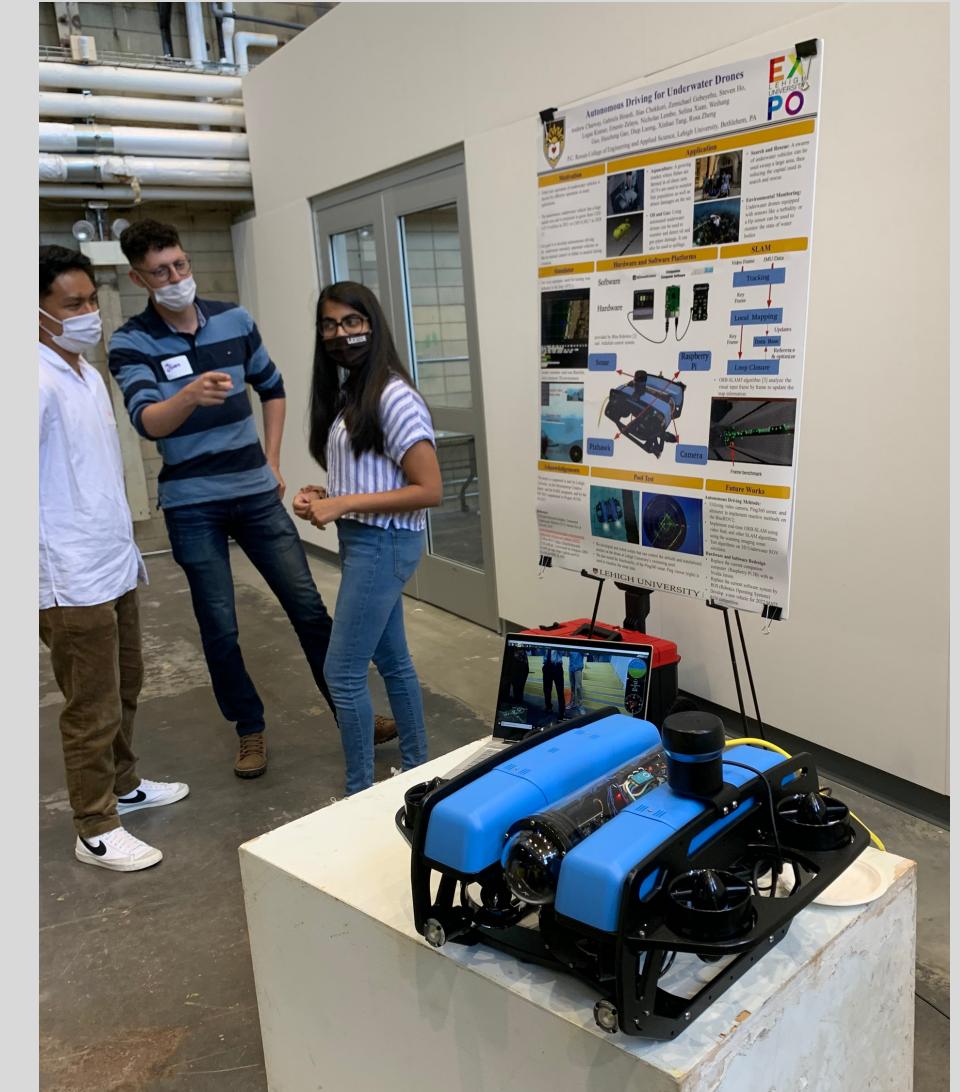
MECHANICAL

The mechanical team is responsible for designing the drone and its construction. The specification of the drone must meet the requirements of the electrical and software teams and the competition.

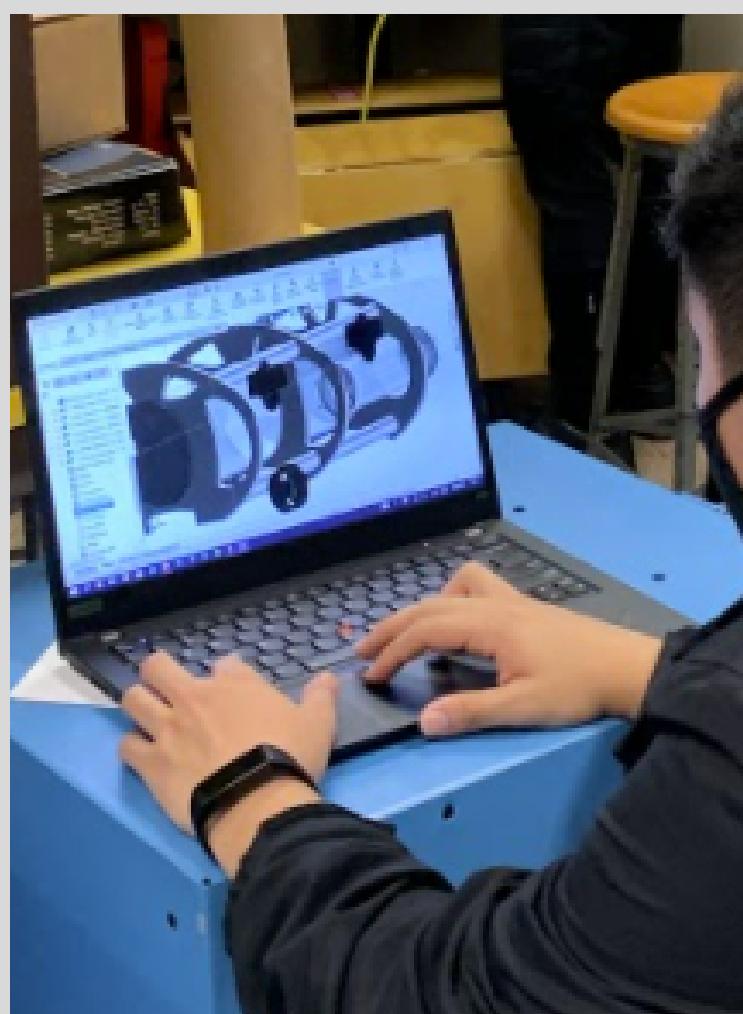
OUR PROGRESS

SUMMER 2021

From June to August 2021, our group was a part of Lehigh's Mountaintop Summer Experience. Our goal was to take a BlueROV2, the heavy configuration from Blue Robotics, which is a tethered, remote-controlled underwater drone, and make it autonomous. By August we were unable to make our drone completely autonomous, this was due to the limitations that came with using the BlueROV2's hardware and software. Despite not reaching all of our goals, this was still a great learning experience and inspired us to join the RoboSub competition and create our own drone!



ROBOSUB 2022



RoboSub is an international robotics competition for students to demonstrate their ability to develop an autonomous underwater vehicle (AUV). We are planning on competing in the 2022 competition for the first time! For the competition, we must design and build our own drone that is able to complete the tasks assigned. We are also judged on our submission of a technical design report of our drone and a website.

SPONSORSHIP

SUPPORT WE NEED

Since we are a new robotics team we do not yet have access to many materials or components. We are looking for both monetary donations and donations of parts that would be used in our drones. If you are interested in donating any particular components, please contact us so we can let you know exactly what we are looking for. Some types of parts we are interested in include:

- sensors
- microcontroller boards
- thrusters
- cables
- batteries
- Seaboard material
- cameras
- lights

BENEFITS FOR YOU

Lehigh University is a premier research university in the U.S., and we can be a connection for you to establish a relationship with our school. Involvement with us will help bring your company in contact with our vast alumni network and student body. Our successes will also be a success for you as your company will be featured alongside our drones in our competitions and research papers. The exact benefits for each sponsorship level based on the monetary amount of the donations are specified on the following page.

SPONSORSHIP

LEVELS

All donations will reserve your sponsorship level for 2 years.

PLATINUM \$5,000+

- company logo and link on our website under the Platinum section
- company logo and name on our sponsorship packet for 2022 and on competition posters
- company logo featured on our drone and t-shirts for competition
- company name on competition-related papers

GOLD \$3,000+

- company logo and link on our website under the Gold section
- company logo and name on our sponsorship packet for 2022 and on competition posters
- small company logo featured on our drone and t-shirts for competition
- company name on competition-related papers

SILVER \$1,000+

- company logo and link on our website under the Silver section
- company logo and name on our sponsorship packet for 2022 and on competition posters
- small company logo featured on our t-shirts for competition

BRONZE <\$1,000

- company logo and link on our website under the Bronze section
- company logo and name on our sponsorship packet for 2022 and on competition posters



CONTACT US

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SOCIAL MEDIA



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**Thank you for your
support!**

