



AUTONOMOUS UNDERWATER VEHICULE

SPONSORSHIP PLAN

Support Team S.O.N.I.A.



Help today the engineering
of tomorrow

2022-2023



Le génie pour l'industrie



What is Team S.O.N.I.A.?

The scientific club **S.O.N.I.A. (Système d'Opération Nautique Intelligent et Autonome)** has been engineering an autonomous submarine since 1999. Our team is composed of students from various engineering fields. These student volunteers from the École de technologie supérieure are working on this project in parallel with their studies.

This year, the team will participate in the 26th edition of the RoboSub International Competition. This competition is organized by the RoboNation - AUVSI Foundation (Association for Unmanned Vehicle Systems International), an association that promotes autonomous vehicles. S.O.N.I.A. was the first Canadian team to participate and the only Canadian team to have won this competition. The competition consists of numerous runs that simulate the tasks routinely performed by autonomous submarines.

Our goal

This year, the team aims to design and build the next generation of the submarine while keeping the current submarines afloat. To reaffirm the impressive results from 2022, S.O.N.I.A. aims to return to competition with two submarines in 2023 to accumulate maximum points.

With the departure of many experienced members, the team is looking to train many new members to keep the momentum going.

In order to keep close ties with other teams in Quebec and following the successful organization of a provincial competition in 2021, the team wishes to repeat this experience in 2023 to prepare for the RoboSub competition.



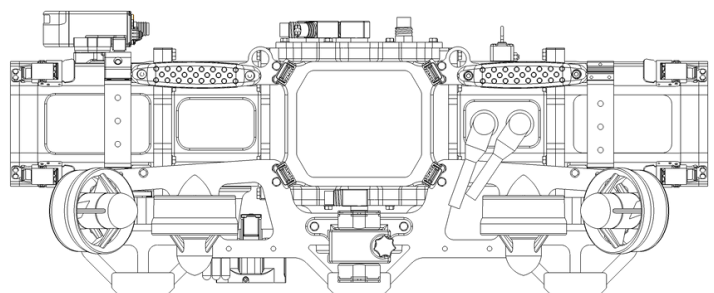
In What are you Investing?

Last season, team S.O.N.I.A. fine-tuned its AUV8 underwater platform and refurbished AUV7 to achieve a 5th place overall finish. This year, it's time for optimization and integration of new systems. The oldest prototype will again have to undergo maintenance and the newest one will be perfected to perform the most complex tasks.

Pool and outdoor testing continues to be vital to the club. The scarcity of these tests pushes us to improve our simulator which will allow us to maximize the efficiency of our tests. In addition, the recruitment of new members will bring forth new ideas that may lead to the design of AUV9.

Where your Money is going?

- Restore AUV7 extrusions
- Finish the implementation of the sonar to map the submarine's environment
- Improve the artificial intelligence vision
- Purchase new 3D cameras
- Upgrade the old platform
- Get more time the the pool to test our prototypes



Visibility & Partnership

The S.O.N.I.A. project offers visibility and promotion opportunities for your products and services in the robotic community and autonomous submarines.

Each year, the team participates in several conferences and events. Also, our organization also provides important visibility in the ÉTS community by participating in several events and recruiting the best students.

Your company can help the team in many ways, including monetary donations or components give away. The list on the next page explains the recognition agreements according to your contribution.

Events & Exhibition attended

- ADRIQ Gala
- ÉTS open house day
- ÉTS student club's sponsor recognition night
- Career day for high schools and colleges
- Presentations in primary schools, high schools and colleges
- OIQ's seminar
- Presentation at the Eureka 2022 festival

International Fairs presentation

- Unmanned System Canada Conference, Montreal, November 2011
- Unmanned System Conference North America, Washington, August 2011
- AUVSI Xponential, Chicago, April 2019
- HBK's Product Physics Conference (Online), October 2020

Our Achievements in 2021

- Robosub Competition, *August 2021 (online)* :
 - 1st place for Skills Video on Hull Design
 - 2nd place for Skills Video on Sensor Optimisation
 - Juges Special Award for Creative & Engaging Videos
- Organization and participation at the Quebec AUV Challenge, *November 2021*
- Robosub Competition, *August 2022* :
 - 2nd place in technical documentation
 - 5th place in the autonomous challenge
 - Special mention for the inter-vehicle communication
 - Recognized as pionners for *Data sharing*



Our Budget

Expenses

ADMINISTRATIVE FEE	5 000\$
SOFTWARE AND INFORMATICS	4 000\$
ELECTRONICS AND INSTRUMENTS	9 000\$
MECHANICAL AND MANUFACTURING ...	8 500\$
POOL TESTS	6 000\$
QUÉBEC COMPETITION	3 000\$
ROBOSUB COMPETITION	21 500\$
OTHERS	1 000\$

TOTAL 57 500\$

Incomes

FINANCING FROM ÉTS	40 000\$
RACE	8 500\$
ROBOSUB BURSARY	1 000\$

NEEDS 5000\$

TOTAL 57 500\$

Sponsorship Benefits

Your company can help us in many ways, whether it be monetary donations, material donations or by offering your technical expertise. The following categories describe the benefits that can be obtained based on your contribution.

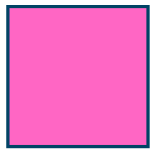
- For Diamond contributors, the benefits will be available for a period of three years.
- For Platinum and Gold contributors, the benefits will be offered for a period of two years.

S.O.N.I.A team members will also be available to talk to you about our submarine and show you how your contributions are being used. In addition, our promotional resources give your company visibility within the school that trains more than 25% of all Quebec engineers and ranks second in Canada for the number of undergraduate engineering degrees awarded.

LIST OF BENEFITS	DIAMOND	PLATINUM	GOLD	SILVER	BRONZE
	8 000\$ or more	4 000\$ to 7 999\$	2 000\$ to 3 999\$	1 000\$ to 1 999\$	999\$ or less
Invitation to the annual recognition cocktail	✓	✓	✓	✓	✓
Your logo on the S.O.N.I.A. with a link to your webpage	✓	✓	✓	✓	✓
Your logo on our sponsor's banner, present at all activities	✓	✓	✓	✓	✓
Your logo on all official merchandise	✓	✓	✓	✓	
Your logo on all printable promotions	✓	✓	✓	✓	
Your logo on the submarine's hull	✓	✓	✓		
Your logo in a prime location on the vehicle	✓	✓			
Corporate promotion	✓	✓			
Participation in a corporate event of your choice	✓	✓			
Prime location on all printed promotional means	✓				

Your Logo on our **Vehicles**

Here are the locations available to promote your business.



Diamond

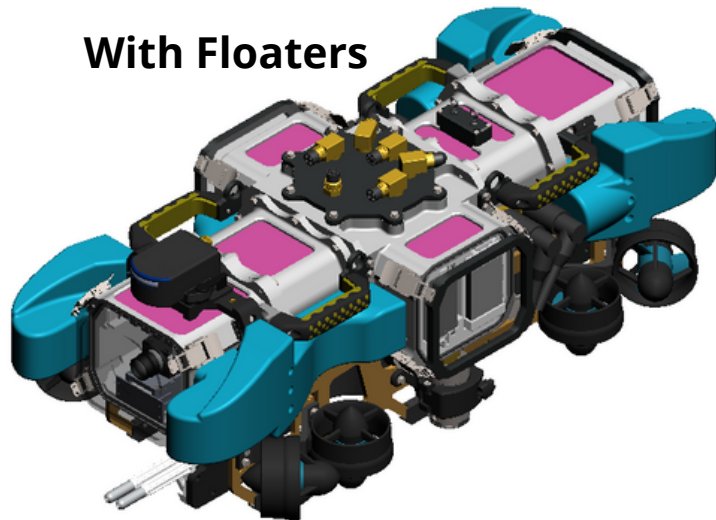


Platinum

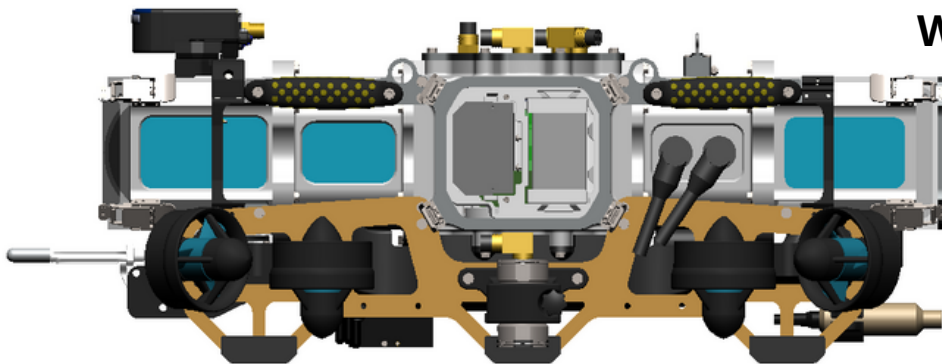


Gold

With Floaters



Without Floaters

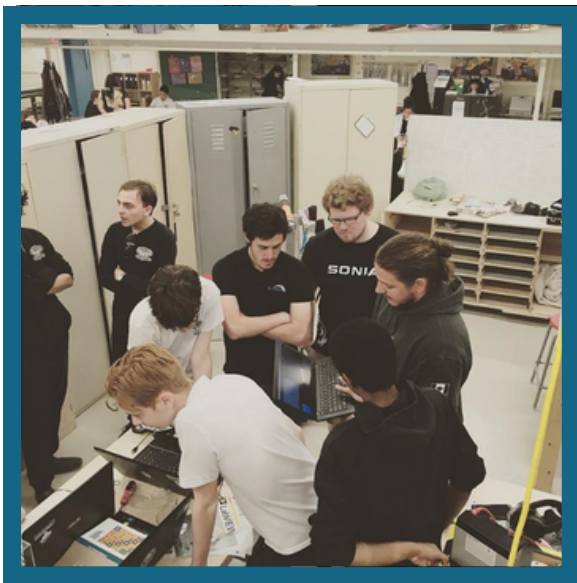


Our Engagement with the Community

The submarine is not only a tool to win competitions, but also a source of inspiration for young minds in relation to science.

The presentation program in elementary schools aims at promoting school perseverance. The objective was to highlight the creativity related to science through presentations on our submarine project. Last year, we also participated in the Eureka Festival whose theme was water in all its states.

During the presentations, students of all levels quickly understood the concepts presented and asked many questions. The youths feel challenged by the project carried out and presented by ÉTS students.



Those presentations and workshops are not only a great source of education for kids, but also for the teachers. Programming and robotic are valuable skills to have for the future. Unfortunately, teachers are often unable to teach and help students due to novelty of the subject and the lack of resources.

Team S.O.N.I.A. would like to help those teachers by giving them tools and activities on different subjects that we mastered through our project. Programming is a big part of our submarine but we also have an expertise in electrical and mechanical fields.

In addition to the technical aspects, our team also promotes the importance of value and character. That is why the presentations also focus on challenges such as cooperation and staying in school. Through this presentation, students have a way to connect all subjects in school beyond science. For example, the importance of French as a second language and the importance of teamwork in multidisciplinary projects.

Our program seems to greatly benefit the students in underprivileged schools and women from all backgrounds. Since the presentation is adapted to their level of comprehension and that undergrads are the one presenting, we have noticed that the young students are more engaged and receptive.

They are presented with some accomplishments and opportunities that come with an academic path in technology, which is something that we feel is lacking in schools. Throughout all of our presentations, not a single group of kids looked uninterested. They were all asking a lot of questions as they felt engaged and relevant.

Your Help with this Program

Your support will help us to grow this program and perfect it. Our objective for the 2022-2023 year is to reach at least 2500 students from all backgrounds.

Since all of the team members are volunteers, all of the expenses for travel and preparation for these presentations are coming from the team's budget. By helping the team, you are also assuring the longevity and the growth of this project.



Sponsors 2022-2023



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SONIA



Contact Us

Club S.O.N.I.A.

Roxanne Parent Thibeault, Captain
École de technologie supérieure
1100, rue Notre-Dame Ouest, D-2014
Montréal (Québec) H3C 1K3
Canada

Tel. : +1 (514) 396-8800 ext. 7622

sonia@ens.etsmtl.ca
<https://sonia.etsmtl.ca/>

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