



RoboSub 2023

Optional Community & Outreach Submission

School/Organization Name: École de technologie supérieur

Team Name: SONIA

Generic Team E-mail: club.sonia@etsmtl.net

Submission Date: May 2, 2023

Community & Outreach Submission

A key objective of the RoboSub program is to strengthen and enhance the community. Teams are encouraged to participate in educational outreach activities and describe those activities here. Maximum 500 words

Community & Outreach Description:

At SONIA we are proud of our ability to empower and inspire the next generation of engineers and STEM students. As such, the team has met over ten groups of students aged between 10 and 17 over the year. The team has put an emphasis on meeting at risk students or underrepresented groups in STEM.

During the time spent with students, the club presented the two submarines, their systems, the development process, and the competition. Members also discuss their academic journey and the challenges they faced along the way.

Note: due to legal issues we cannot publish the pictures of the activities but we will have some photos to present.

School visit (primary school)

This year we received the visit of three groups of primary school students. We presented our two prototypes to the student as well as the challenge of the competition. The goal of the presentation was to motivate the student's imagination and creativity. We were greatly impressed by the amount and the quality of questions that we were asked by the students.

School visit (secondary school)

Over the course of the year, the club has received four different groups of secondary school students. We provided the students with a guided visit of the university installations as well as a presentation of the club and of the prototypes. We also discussed with the students the requirements to enter in an engineering program, and we answered their question on university in general.

Day camp

The club has prepared an activity for the three groups of the university day camp. During the activity, each group are divided in team of two and are given task inspired by the RoboSub competition. The children must complete the task by communicating verbally only, as if they were our two submarines. The goal of the activity is to introduce the children in a fun way to the specific challenges faced when dealing with underwater communication.

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