# ENTIC-lab
# Draft PART B proposal

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**WHAT are you going to implement?**

For part B of the project we want to add some modifications to our ROUV. We would try to implement a sonar that would measure the distance between the ROUV and the seabed, and we would show it from a real-time graphical interface. In addition, this information will be saved to an SD card so that we can easily check the information anytime, anywhere.

**HOW are you going to build it?**

To implement the sonar, we thought of using the ultrasonic sensor called HC-SR04. With this sensor we can detect objects or the seabed at a distance between 2 and 450cm.

To implement the graphical interface we will use MATLAB where we will process the data and display it through a graph.

And finally to save the data to an SD card we will use a microSD adapter module for Arduino, and modify the code so that we can open a file, write it and save it to the external card.

**WHY is it useful?**

The reason we want to implement a sonar is to make a study of the seabed and be able to have a tool capable of detecting any object that is polluting this environment as well as cans, bottles and plastic bags.