

Problem

- Nowadays, there are many students who have almost no contact with robotics and electronics in schools all over the world, mostly because of the cost and lack of these materials.
- Other problem is that a lot of students find physics and programming classes boring because it mostly consists of theory and looking to a computer, which isn't attractive for most of them.
- For that reason, many completely discard a career in these areas since they had no previous experiences that captivated them

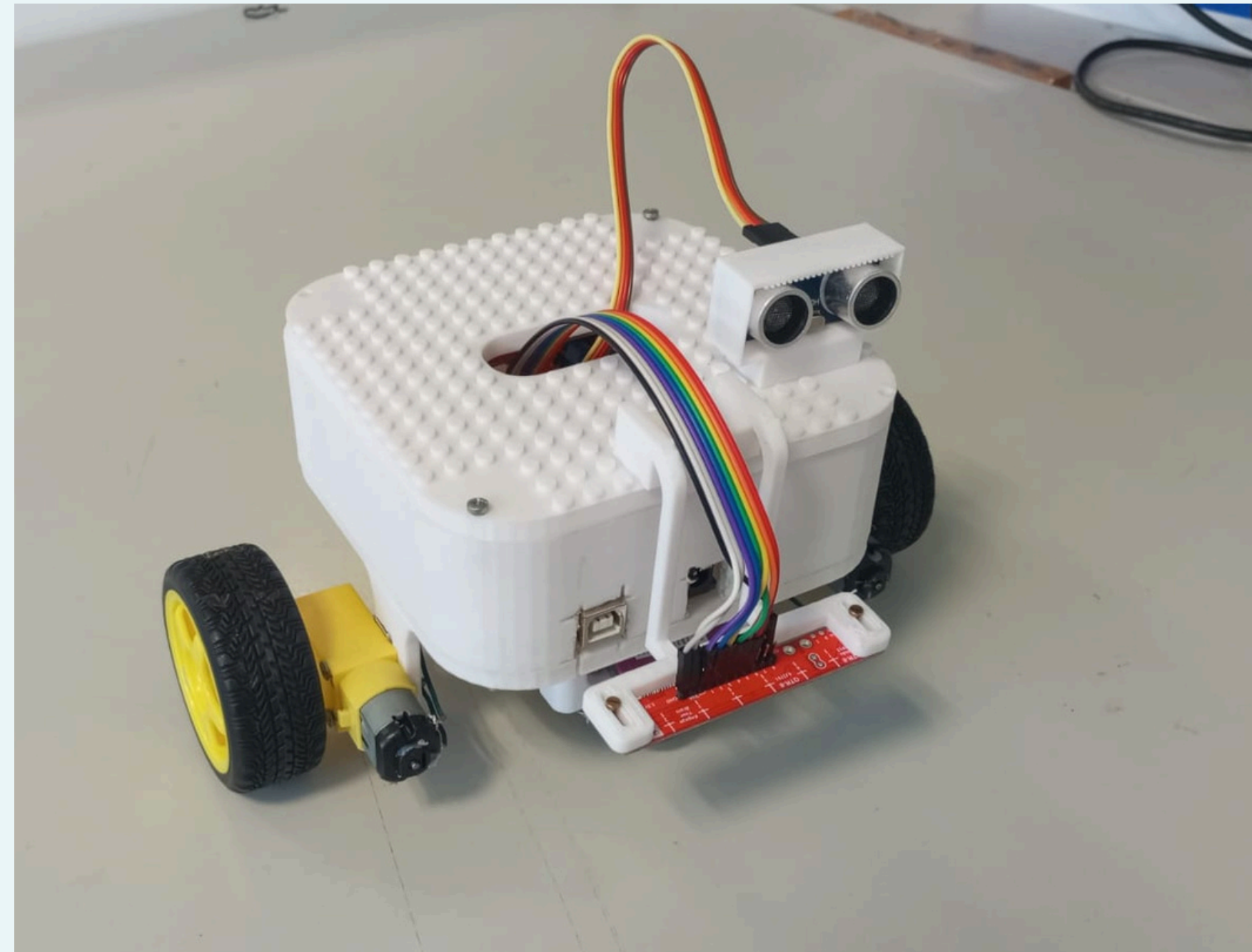
Solution



- The project consists of a modular robot, which can perform a variety of different actions, to show what engineers can do in an interactive and funny way.
- With ROBUDDY, we want to teach concepts from these areas in a fun and simple way to make their interest and curiosity grow.

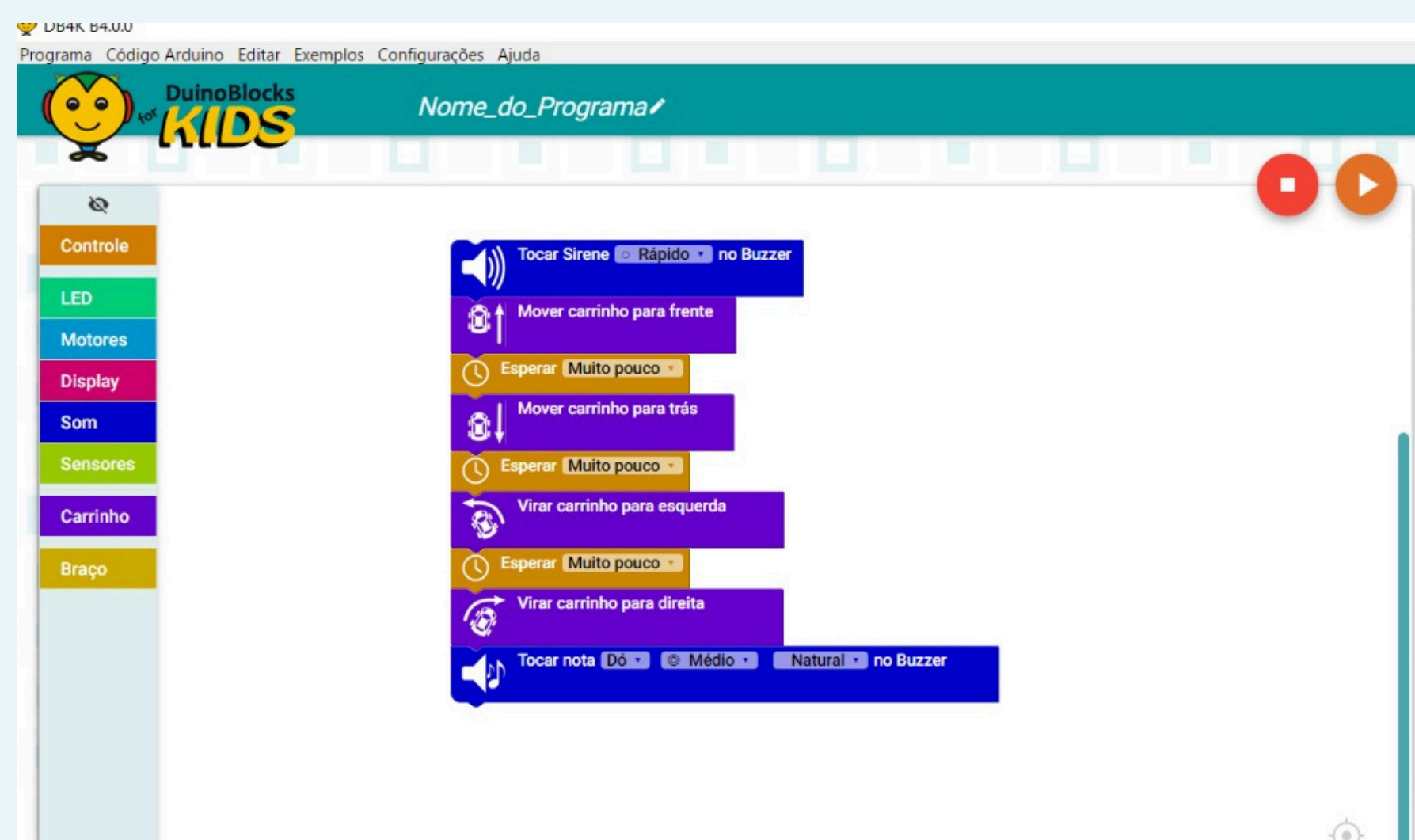
Modules

- The robot has modules such as a mechanical claw, "follow the line", a small video-game with audio, etc. (see the full list on our website)

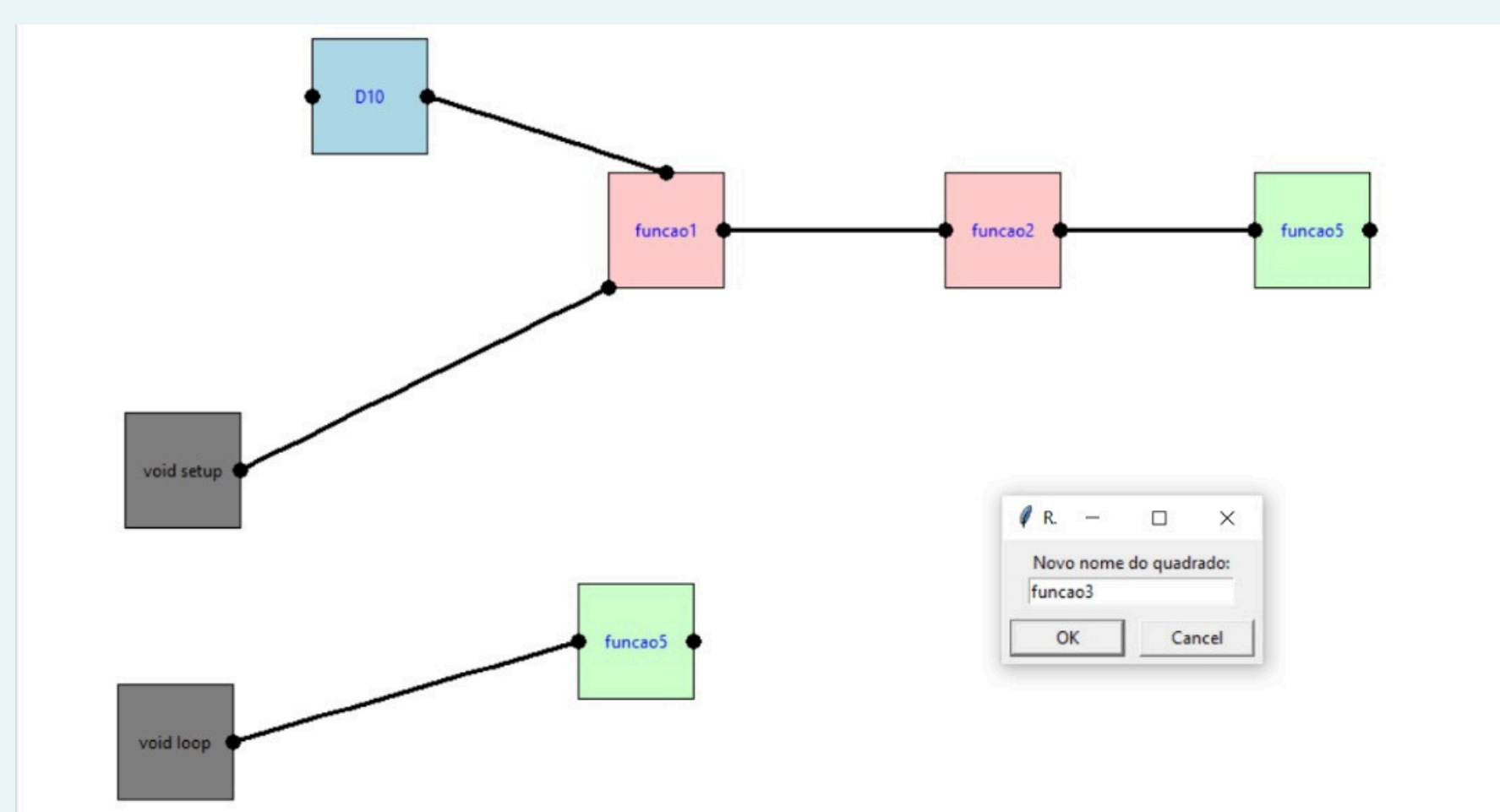


Our GUI'S

- 2 GUI'S, for 2 different age gaps, with some differences at design level, which work with Arduino IDE



- The first one was designed for younger students, which is based on programming by blocks, so that the students focus on the robot itself



- The second one was designed for older ones, where programming is a bit more complex, to introduce them to arduino IDE basics, such as defining and creating functions.

Target

- Our main target are students from age 10 to 18, and our main goal is to captivate students from this age gap to the areas of robotics and electronics.
- We want to reach our target mainly through education institutions that can use our product in the classroom or in other activities.

Competitors

- From previous research, we found a few products with the same idea, but all have an expensive price turning it unaccessible for everyone

Costs & Benefits

- Right now the cost is similar to the products in the market, however the plan is to cut down the cost so that is more affordable to our target, schools.
- We have partnerships with Inovlabs and the Tecnico Eletronic Engineering Student Organization.



QR code for our website

