

WHEELS ON FIRE

Group Members:

- Tunde Ballint, Currently studying Computer Science (end of the 2nd year) at the Technical University of Cluj-Napoca, Romania
- Fabien Robert, Currently studying electrical engineering (beginning of the 4th year) at LTH, Sweden (Erasmus Student)
- Anna Sardinha, Currently studying Biomedical Engineering (end of the 3rd year) at the Faculty of Science and Technology of the New university of Lisbon, Portugal



Name of Robot: TASK AVOIDER

Short Description:

Our Robot is finally going to land in Mars. All our effort was made for (in this short amount of time) it to perform as best as it can.

For this we altered some features in its design:

- Double bumpers: We've chosen two bumpers in order to have two inputs for a better ... of the robot;
- Tracks: in order to enhance the stability of the robot, they might decrease the velocity but it provides more strength;
- Front Wheels: We've added wheels in the front with the purpose of decreasing the friction in the curbs and when the robot is entering the cave;
- Lowering the front: We've lowered the front of the robot specifically for the task "removing a rock", otherwise it would try to climb the rock;
- Protections for the motor: we've added some protection at the output of the robot because the gear is a little loose and has a tendency to slide with the movement;
- Light Sensor: We've used another solution to attach the light sensor because the one shown doesn't offer that much stability, we've decided to attach it closer to the RCX and in the front;
- RCX: the task "Message from the Satellite" shown us that we can't have any kind of construction in front of it, to be able to receive the infrared sign;

During these two weeks, we enjoyed building the robot, the design is more important than we thought, and it allows or not the robot to achieve some tasks. The programming part was really practical and we had to guess the behavior of the robot more than predict it by the theory.