



OBSTACLES COMPETITION - RULES

REQUIRED HARDWARE:

- ✓ Bot'n Roll ONE Robot;

COMPETITION DESCRIPTION:

The race will start after a signal given by someone from the organization, which will sort out the teams call and presence of each team.

All teams must be ready to participate 10 minutes before the beginning of the competition.

The teams will be called by their registration order. If a team does not show up when called implies its disqualification. Two teams can swap their order, as far as they both agree and inform the jury (up to 15min before the beginning of the competition).

It is **only** allowed the presence of one team element on each race.

The competition objective is for the robot to complete the maze as fast as possible without colliding with the walls. Each collision is penalized with 3 seconds.

The following picture shows one example of maze track configuration.



The assessment is made based on the shortest time possible of the full track completion or largest distance up to the maximum time limit.

Each trial has a maximum time limit of 30s. Each team has 2 trials. It will be considered the best result from both trials.

At the end of the obstacles competition, in case of equal number of points between two or more teams on the first 3 places, the jury may ask the repetition of the races by the involved teams.

The rules must be read and respected by all teams, so that the competitions occur in full harmony, and in safety.



REGRAS DA PROVA

Track Maze

The track can have any shape with approximately 3 meters long. It is white coloured, with 45 cm width and is limited by side two walls of the same white colour, 20cm height. Along the track, at the centre there is a black line 2cm thick, which can be used as a guide for those who have the line follower extra sensor (it is important to note that there are certain parts of the track without the black line, on purpose).

No human element can touch the robot during the trial, unless otherwise stated by the juries.

Robots

The robots must be completely autonomous and must not have any wires to connect them to any external element. The robots can be started by humans, manually or through a remote control.

Competition Time

Each leg has a time limit of 30s. Each team has two trials. It will be considered by the jury the best result from both trials. Each collision has a penalty of 3s. The jury can stop the trial at any time, if required.

Safety

To avoid dangerous situation, it is not allowed any substances which can endanger people or hardware, like explosives, smoke, flames, high voltage/power, water usage, or others considered so by the jury.

Jury

Each leg will have 1 or 2 jury members which will coordinate and assess the trial of each robot.

NOTE: Any omitted situation in these rules will be analyzed, assessed and decided by the jury, without accepting any complaints.