

# **Standard Odometer - How To**

Sistemas Autónomos Perfil Sistemas Inteligentes @ MEI/MiEI 1º/4º – 2º semestre

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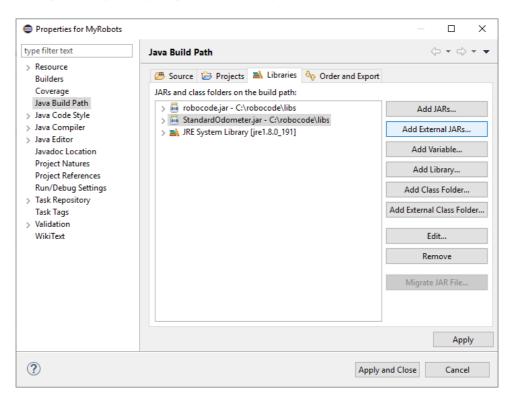
## Importing the lib to Robocode

- Download StandardOdometer.jar
  - https://goo.gl/jun6Sr
- Place the file in Robocode libs dir
  - Usually at C:\robocode\libs
- Go back a folder (C:\robocode) and edit the file entitled as robocode.bat
  - Change from: java -Xmx512M -cp libs/robocode.jar -XX:...
  - To: java -Xmx512M -cp libs/robocode.jar;libs/StandardOdometer.jar; -XX:...



# Importing the lib to the project

Add StandardOdometer.jar to your project's buildpath





# Using the lib

To use the lib just:

```
import standardOdometer.Odometer;
//** Private Instance Variable **\\
private Odometer odometer = new Odometer("IsRacing", this);
//** Add this inside run() **\\
addCustomEvent(odometer);
//** Method for handling the condition of race finished **\\
public void onCustomEvent(CustomEvent ev) {
  Condition cd = ev.getCondition();
  if (cd.getName().equals("IsRacing"))
    this.odometer.getRaceDistance();
```

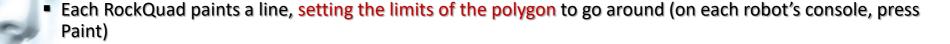


## Importing RockQuad to Robocode

- Download RockQuad robot
  - https://goo.gl/PED2XF
- Import it in Robocode
  - Robot > Import robot or team > robots.RockQuad.jar
  - o A new robot, entitled as RockQuad 1.0, should now be available
- To start a battle you must use 3 RockQuads (each one goes to a different quadrant, namely, quadrant I, II e IV) plus 1 robot to go around the RockQuads



Each RockQuad will go to a different quadrant



- The RockQuad that goes to the first quadrant will (1) print the total perimeter of the polygon and (2) will set the perimeter as a personal property
- Your robot, expected to go around the RockQuads in the shortest possible distance, will have a new set of personal properties:
  - o is\_racing reveals if the robot is racing
  - o finished reveals if the race is finished

The race starts as soon as your robot gets to the starting position (18, 18) and finishes as soon as it arrives to that same position

As soon as the race is finished, the properties of your robot are updated and a new one emerges,
 race distance, indicating the amount of pixels it took your robot to go around the RockQuads!



