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| **Robotics : Labyrinth Robot** |

# List of materials

* Battery LiPo : 7.4 V – 18.5 Wh
* Capteur à ultrason (HC-SR04)
* Capteur d’obstacle à infrarouge IR
* Capteur IR sur les roues
* Servomoteur Arduino
* Fusible
* DC-DC Switching Buck Converter
* DC-USB power converter
* Manuel switch to turn on/off the robot
* Kit Arduino
* Raspberry Pi

# Sensors Specifications

# Class Diagram

## Class: Robot

## Class: Sensor xxx

# Algorithms

## Algo 1: Follow the line on the ground

Must use IR captor and motor captors

## Algo 2: Detect front wall and turn around (anti-clockwise)

Must use ultrasonic sensor and motor captors

## Algo 3: Follow the right wall