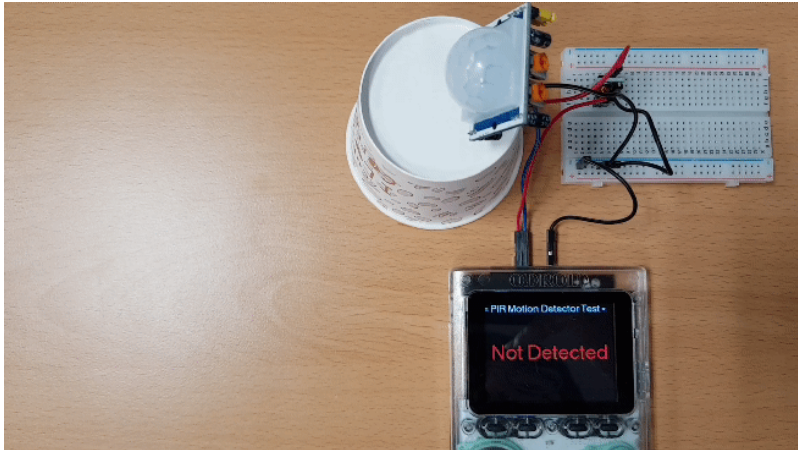


Arduino for ODROID-GO - PIR Motion Detector



- Make sure that you've followed the [Arduino setup](#) guide.



You can detect someone's movements on ODROID-GO with PIR motion detector, with Arduino.

Requirements

Make sure that you have these products:

- ODROID-GO
- A PIR sensor
- Jumper cables and a Breadboard
- An auxiliary battery if using it portable
 - This module requires **5V input power**, but ODROID-GO outputs **3V3 for the power pin(#6)** on its header pins. Thus, it is required to use the **5V USB VBUS pin(#10)** with an external USB power source.
 - Alternatively, you can use a **Step-up DC-DC converter**.
- A MicroUSB cable

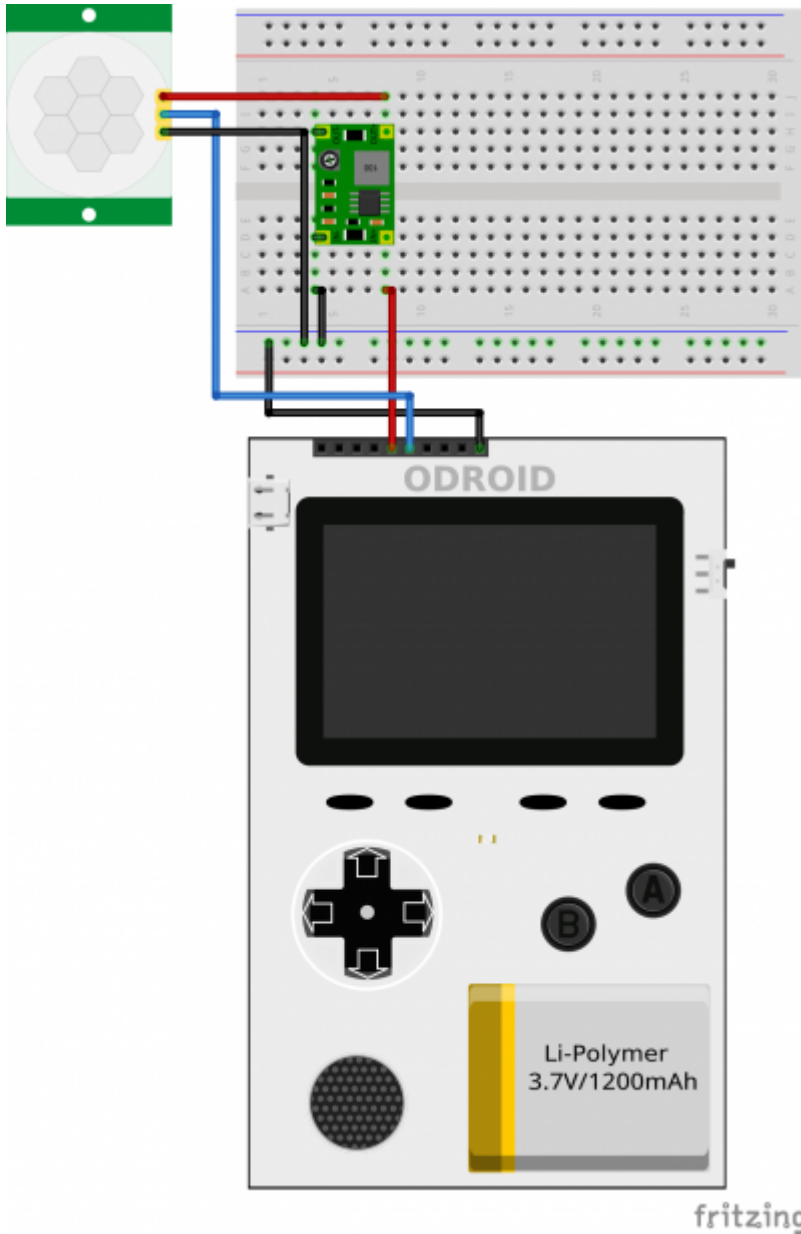
Set up the development environment for Arduino on your system.

Hardware setup

Please refer to the picture below when you set up your hardware.

We use the parts below:

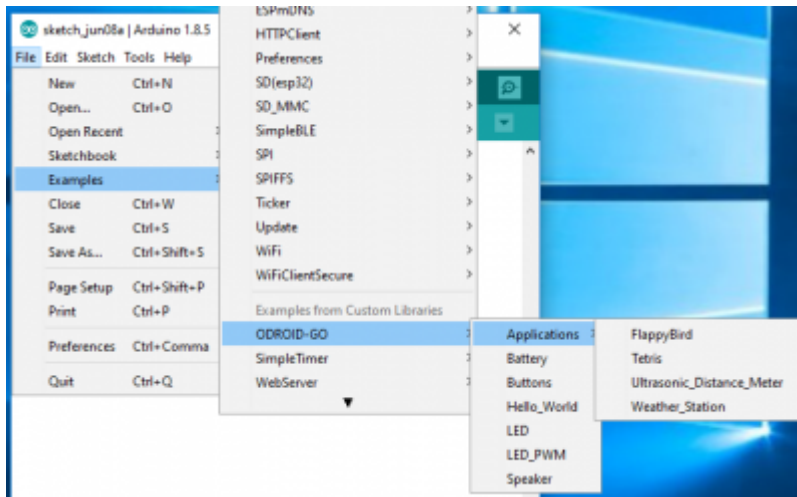
- PIR motion detect sensor: [HC-SR501](#)
- Step-up DC-DC 3V3 to 12V(set to 5V for now) converter: [MT3608](#)



- Download Fritzing example file:
 - odroid-go-pir-motion-detector.fzz
 - ODROID-GO:
 - fritzing_odroid-go.fzpz
 - Mini-360 DC-DC Buck converter:
 - mini-360_dc-dc_buck_converter.fzpz
 - HC-SR501:
 - hc-sr501_body_sensor_module.fzpz

Import and compile, upload to ODROID-GO

Click the **Files** → **Examples** → **ODROID-GO** → **Applications** → **PIR_Motion_Detector** menu to import and press **CTRL-U** to compile/upload.



Uploading is complete when the message “Hard resetting via RTS pin...” is seen.

Check if it works

After the upload completes, ODROID-GO reboots automatically.

If the sensor **detects** some movements, the blue status **LED will turn on**.

If you're using HC-SR501, you can change its triggers way to non-repeatable/repeatable, or adjust sensitivity and timeout with the potentiometers on the sensor.

Please refer to the document for further information.

For more information, please refer to this page:

<http://henrysbench.capnfatz.com/henrys-bench/arduino-sensors-and-input/arduino-hc-sr501-motion-sensor-tutorial/>

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Last update: **2018/09/04 13:36**

