

# Codreanu Cristina

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**Photo:**



**Hackster.io link for more details about project:**

<https://www.hackster.io/cristinacodreanu/control-leds-with-buttons-0ce775>

**Github link for the code:**

<https://github.com/cristinacodreanu/Control-Leds-with-Buttons->

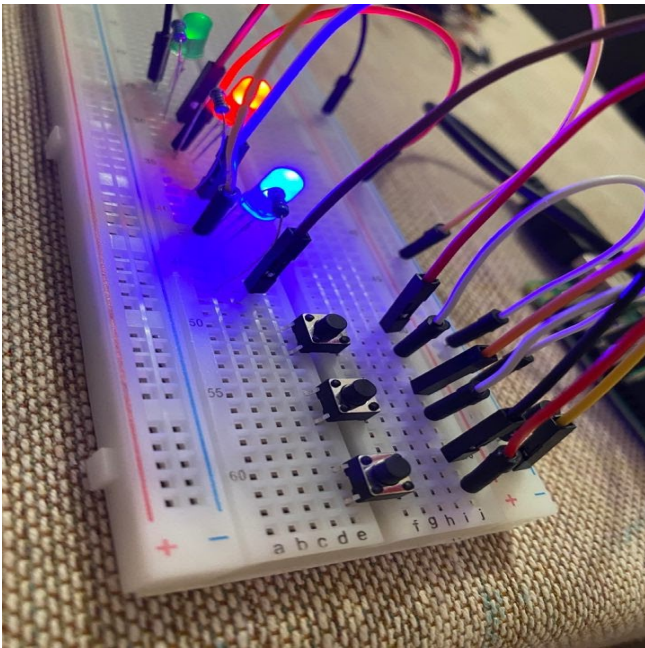
**Youtube links for demos and website presentation:**

<https://www.youtube.com/watch?v=HyCkKN8x2MY&feature=youtu.be>

**Project Name:**

**Control Leds with Buttons**

**Photo:**



### **Elevator Pitch:**

How to use RPI 3 Model A + to control Leds with Buttons

### **Hardware Components:**

- RaspberryPi 3A+
- Breadbord 830p
- Male-to-male jumper wires
- Male-to-female jumper wires
- 3 x resistors
- 1 green led
- 1 red led
- 1 blue led
- 3 push buttons

### **Software apps and online services**

- Raspberry Pi Raspbian
- Python 3 -Rpi.GPIO library

### **Story:**

This project describes how to use RPI 3 Model A +, leds and buttons.If you press a button then a led would be activated.The project contains activities presenting some capabilities of Raspberry Pi Model A +.The code starts with the importing of the sleep and Rpi.GPIO libraries and by setting the GPIO.BOARD numbering.

**Theory Lessons:** What are Pins (on a Microcontroller)? Parts of an Energia Program-Sketch.

**Concepts Used:** How to Wire Up a Breadboard How to Wire a Breadboard with an LED Using Energia Examples.

**Concepts to Learn:** Wiring more than 1 LED Microcontroller pin out Changing and modifying a program.