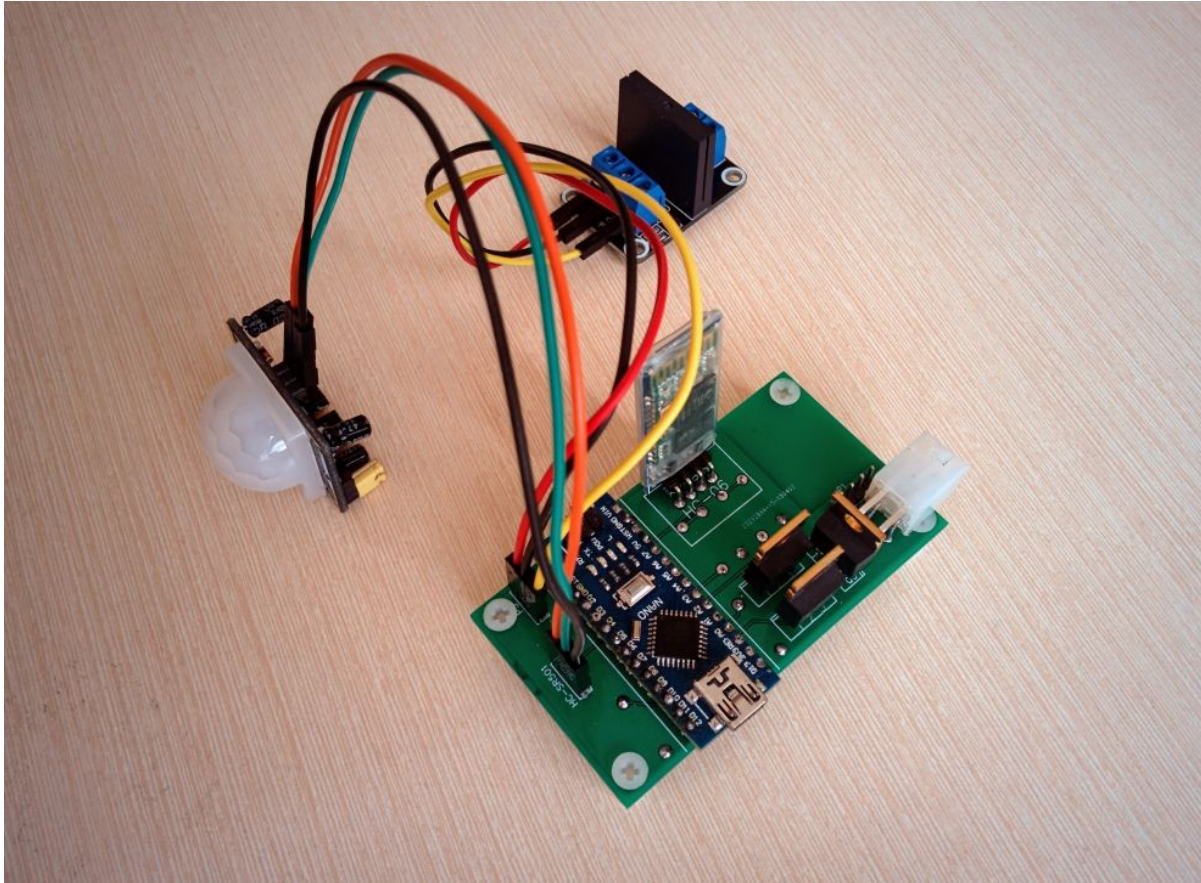# Valentin-Golyonko

RGBStripControl_Arduino

How it works

Project for managing rgb backlighting with arduino and android applications.
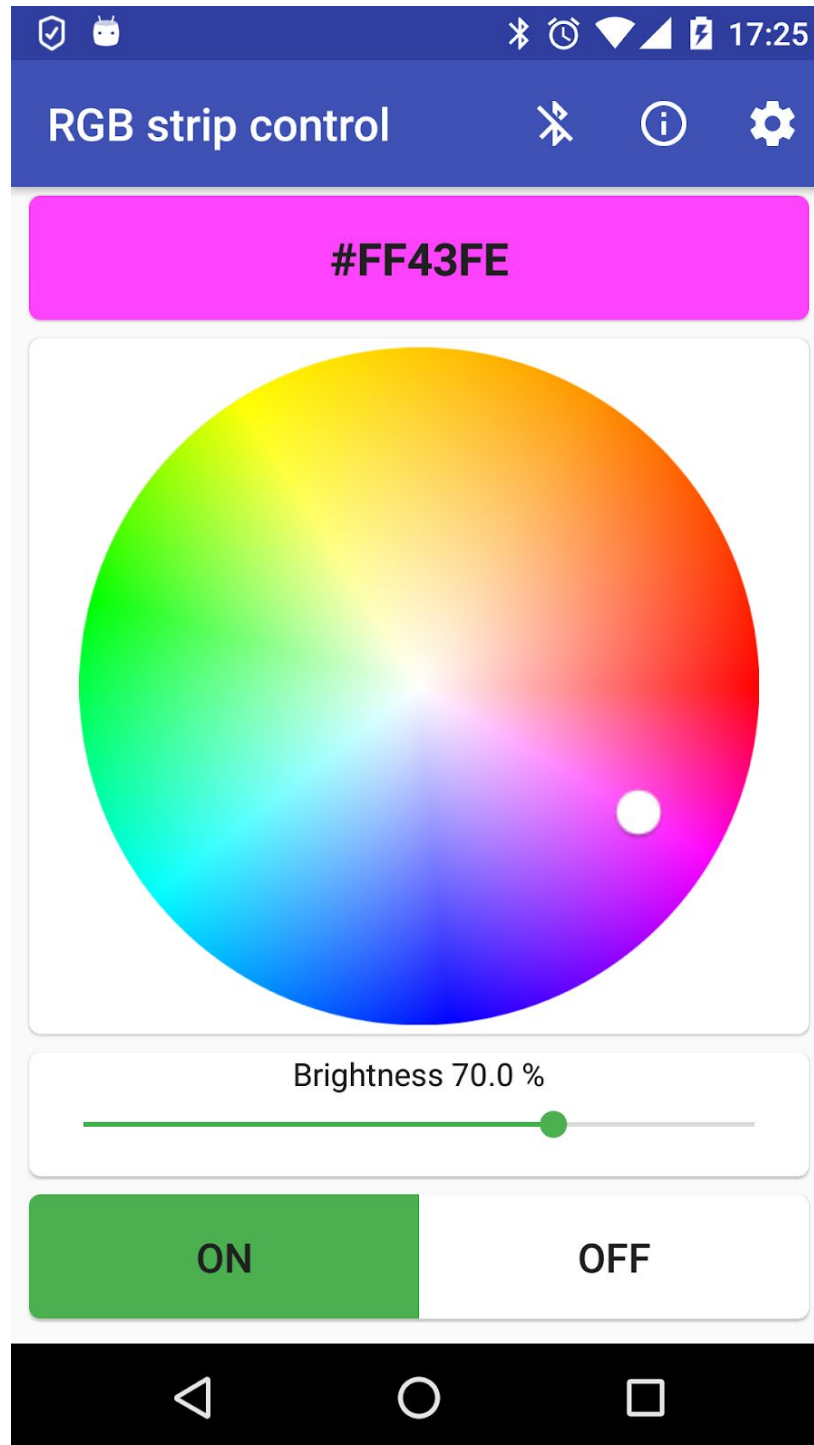
Arduino nano processes date from:

1) PIR motion sensor (HC-SR501) to turn On or Off RGB led strip through solid state relay (G3MB-202P);

2) bluetooth (HC-06 v2.0) to communicate between led strip and android application - set color, brightness, turn on/off;

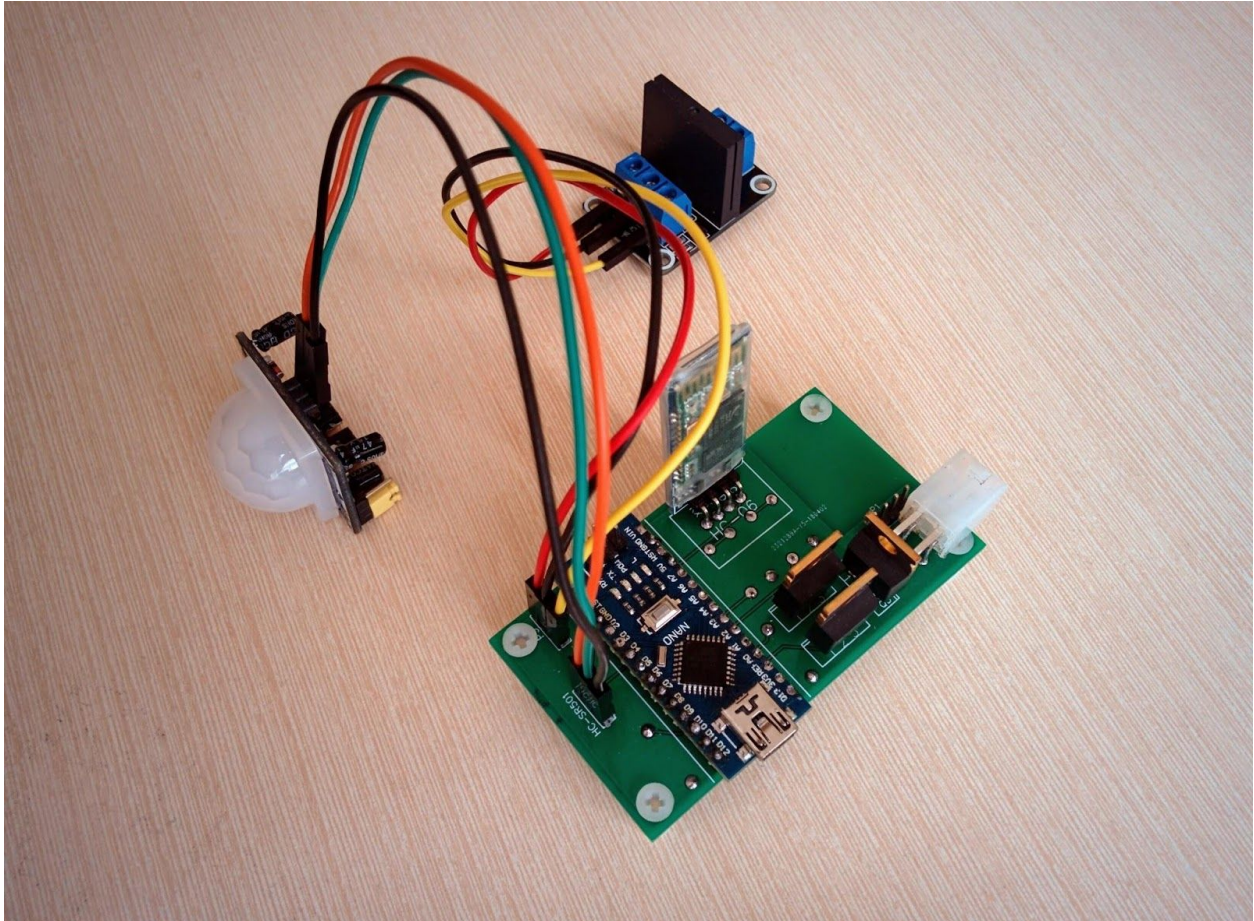3) arduino PWM pins through MOSFET transistors (IRL540PBF) to set color.
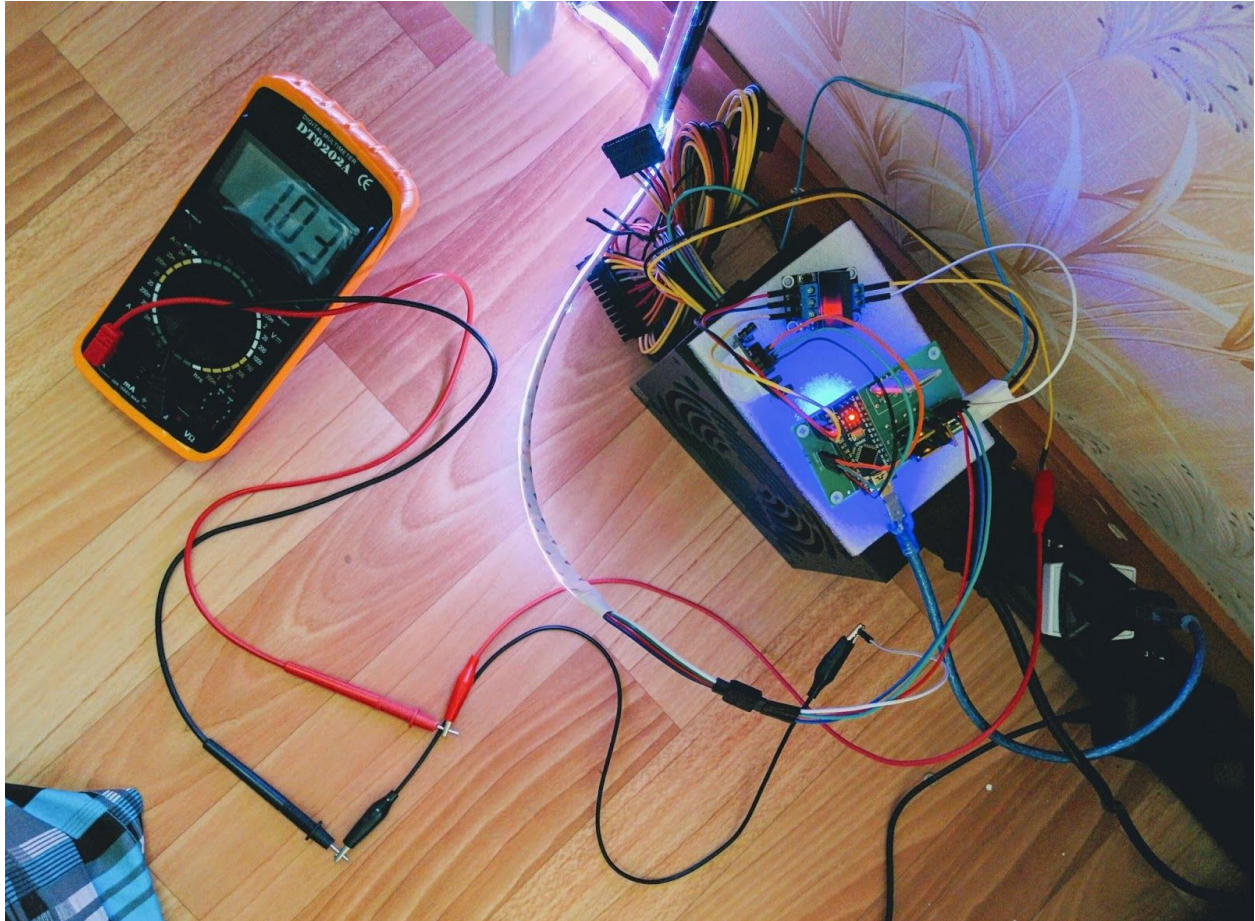
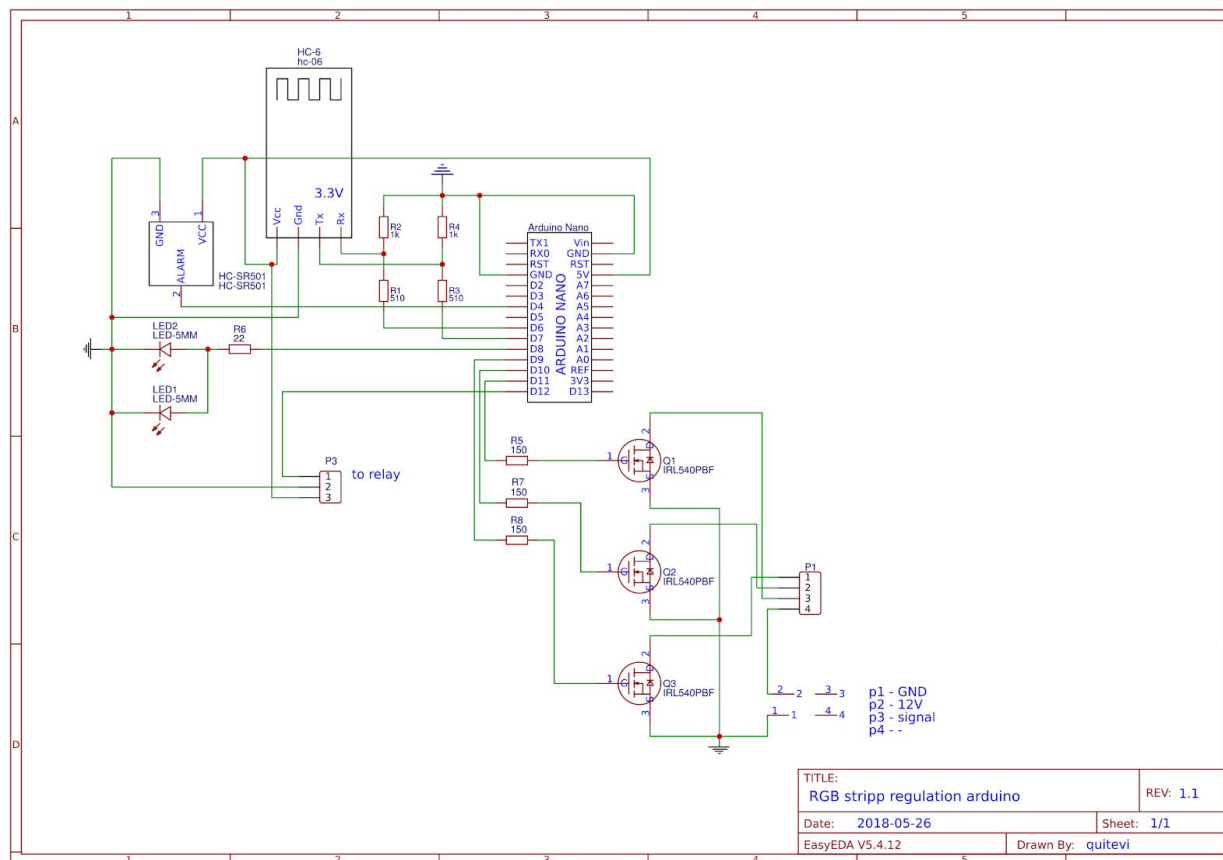**Arduino firmware** (link)

Android app view:

Board view:

Working board with PC power supply, and current consuming in 12V line with 100% brightness:

Schematic view:

PCB view: