Controlling Many Servo(s) Using IC TLC5940

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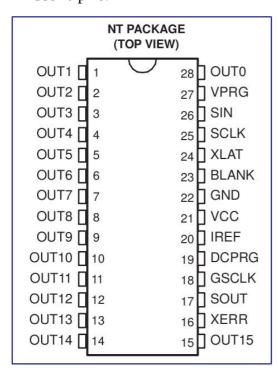
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Tlc5940 is a 16 channel led driver. Since this IC has pwm control ability we can use this IC for controlling up to 16 servo(s).

Below is tlc5940 datasheet:

http://www.ti.com/lit/ds/symlink/tlc5940.pdf

TLC5940 pins:

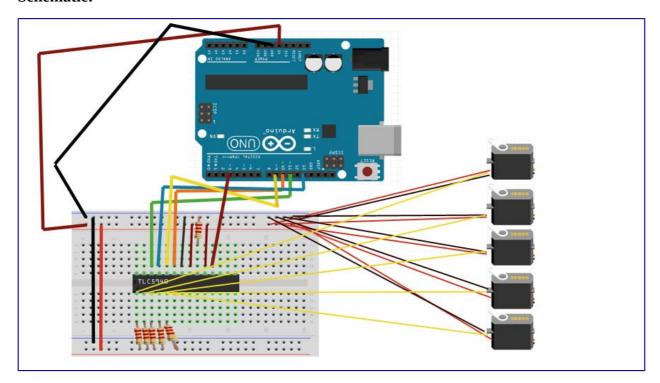


out0 - out15 pin will be used for pwm controller on each servo. In this tutorial, we will control 5 motor servos using tlc5940 and arduino uno.

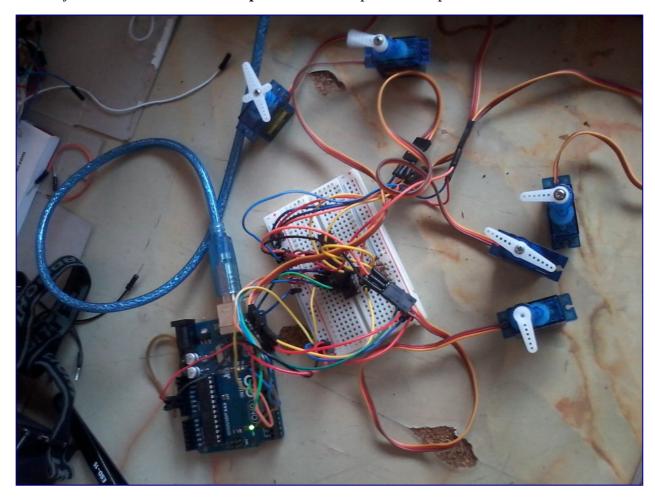
Requirements:

- 1 arduino uno
- 1 tlc5940
- 1 half + breadboard
- 5 resistor 2,2 k
- male to male jumper wires
- arduino uno
- 5 tower pro micro servos

Schematic:



Actually **It's better to use external power source** to power multiple servo.



Here's the code for arduino:

```
#include "Tlc5940.h"
#include "tlc_servos.h"
void setup()
{
  tlc_initServos();
void loop()
{
  int i;
  for (i = 1;i <= 5; i++) {
    tlc_setServo(i, 0);
    Tlc.update();
    delay(300);
tlc_setServo(i, 180);
    Tlc.update();
    delay(300);
  }
}
```

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