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No.9, 1st Floor, Lrg 1/SS2, Bandar Tasek Mutiara, 14120 Simpang Ampat, S.Prai (S), Penang
Tel:+604.504.1617 Hunting Line: 012.4033.474 Fax:+604.502.1726

(Website) http://www.synacorp.my (Email) sales@synacorp.com.my

## **Application 1: Control the RC micro servo motor using potentiometer**

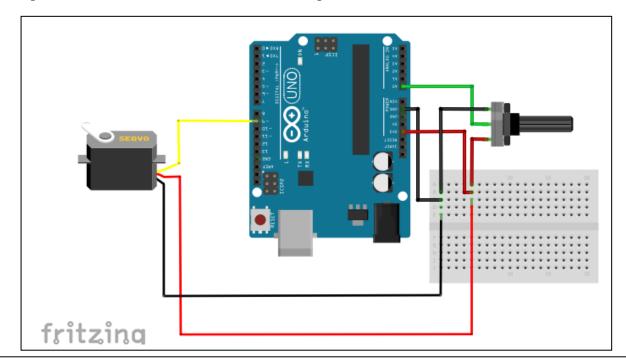


# **Component needed:**

- Arduino UNO
- SG90s RC Micro Servo Motor 9g
- 10Kohm potentiometer
- Some jumper wires

## **Arduino's connection:**

Arduino	SG90s	Arduino	Potentiometer
5V	>>VCC	5V	>>INPUT
GND	>>GND	GND	>>GND
D9 pin	>>PWM	A0 pin	>>OUTPUT

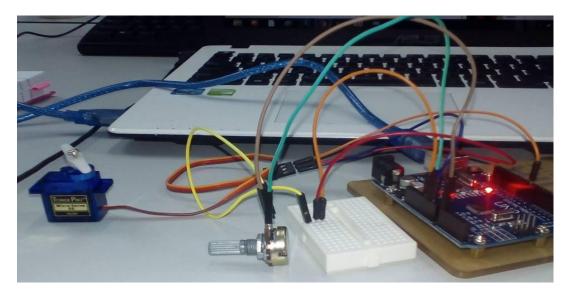


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- 1. Connect the circuit as shown in the figure above.
- 2. Open your Arduino IDE and upload the sketch. You can get the code from the *Application1\_sketch*.
- 3. Now, you can control the servo motor by using the potentiometer.



#### **Conclusion:**

The rotation of the motor is controlled by the potentiometer. If you rotate the potentiometer to the right, the motor will rotate in clockwise direction and vice versa. The motor will not function if the knob of the potentiometer does not rotate.