Servo

1. Overview:

Servo is a type of geared motor that can only rotate 180 degrees. It is controlled by sending electrical pulses from your UNO R3 board. These pulses tell the servo what position it should move to. The Servo has three wires, of which the brown one is the ground wire and should be connected to the GND port of UNO, the red one is the power wire and should be connected to the 5v port, and the orange one is the signal wire and should be connected to the Dig #9 port.

2. Component Required:

(1) x Uno R3

(2) x Servo (SG90)

(3) x M-M wires (Male to Male jumper wires)

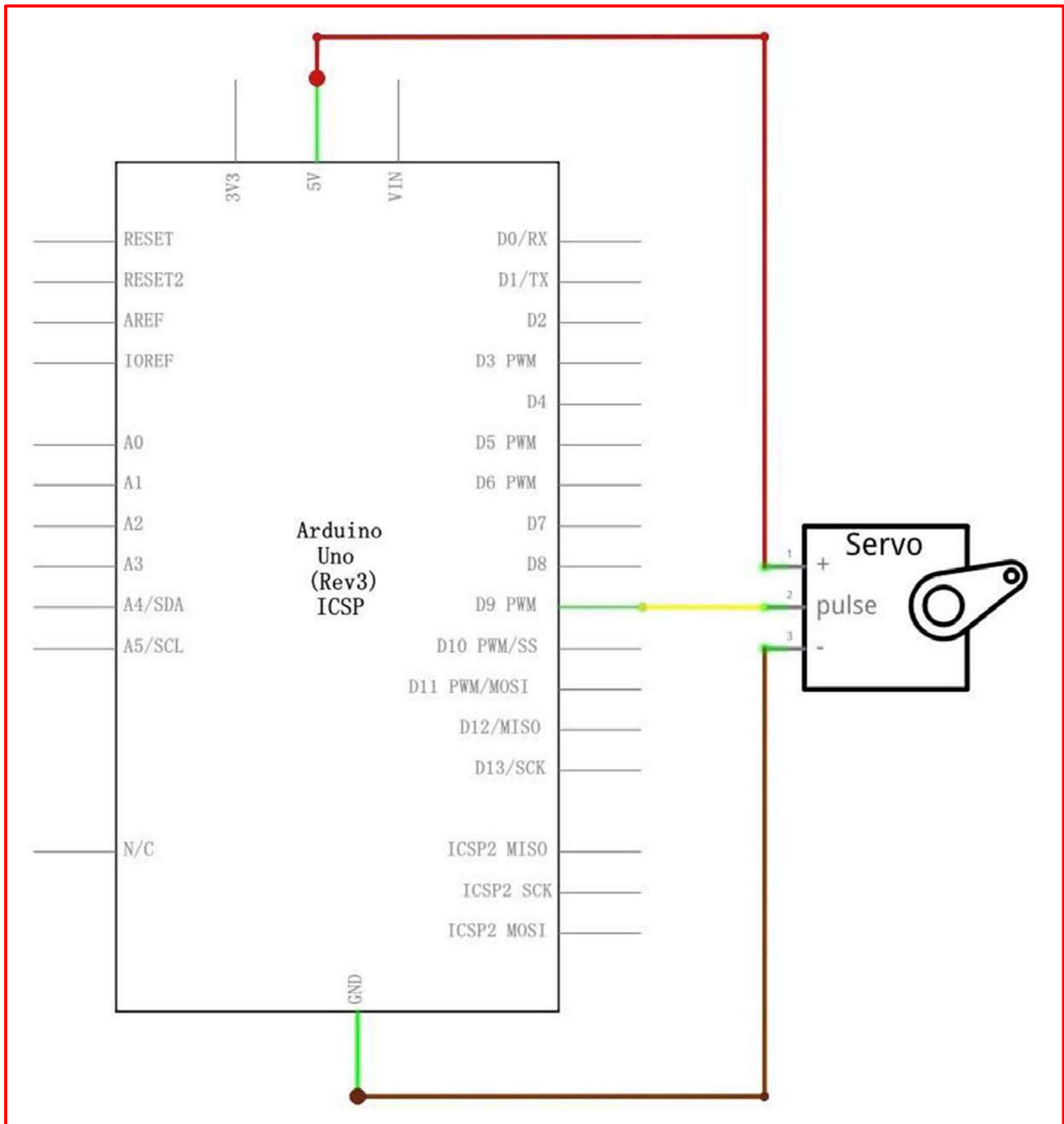### 3. Component Introduction:

- **SG90**

■ Universal for JR and FP connector

■ Cable length : 25cm

■ Stall torque (4.8V): 1.6kg/cm

■ Temperature : -30~60'C

■ Dead band width: 5us

■ Working voltage: 3.5~6V

■ Weight : 4.73 oz (134 g)

■ No load; Operating speed: 0.12 sec / 60 degree (4.8V), 0.10 sec / 60 degree (6.0V)

■ Dimension : 1.26 in x 1.18 in x 0.47 in (3.2 cm x 3 cm x 1.2 cm)

4. **Connection:**

- **Shematic**

GeoTashfeen

5. Wiring diagram: