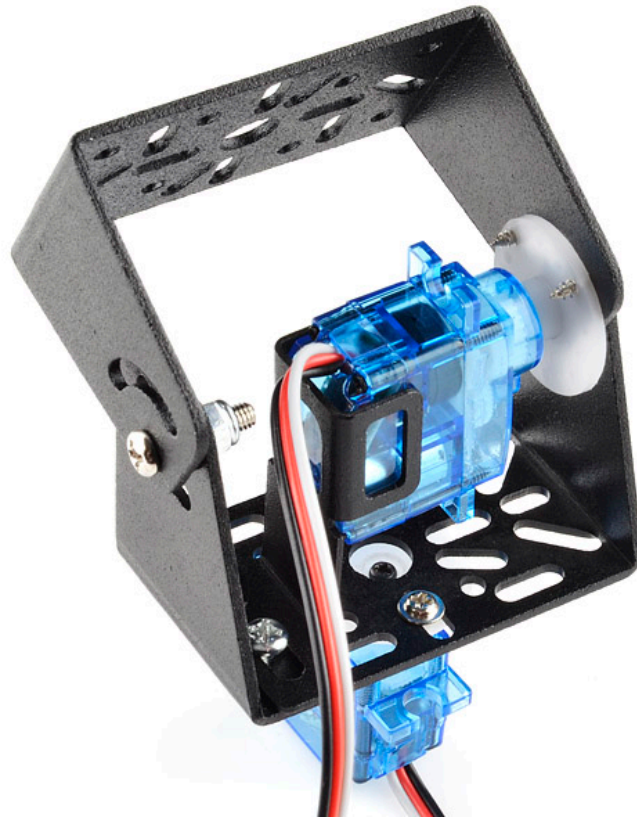


## Pan-Tilt Mechanism



This pan/tilt bracket consists of two brackets and all the hardware you need to attach them to make a pan/tilt mechanism using two servo motors.

You can use it to mount your sensor or camera and move it in x,y,z directions.

We recommend our small servo motors listed below.

[For dimension drawings of pan tilt, click here](#)

[For assembly instructions of pan tilt, click here](#)

## Arduino code using joystick for controlling pan tilt mechanism servos

```
/**
 * PanTiltControl
 *
 * Uses an analog joystick to control a servo pan/tilt mount.
The prototype
 * One axis of the joystick controls the pan, the other controls
the tilt.
 */

#include <Servo.h>

Servo horzServo; // Create a servo object for the pan
(horizontal) servo
Servo vertServo; // Create a servo object for the tilt
(vertical) servo

int horzPin = 0; // Analog input for the joystick horizontal
axis
int vertPin = 1; // Analog input for the joystick vertical axis
int vertVal; // Value read from the vertical axis
int horzVal; // Value read from the horizontal axis

/**
 * Setup
 */
void setup()
{
  horzServo.attach(9); // Use pin 9 PWM output for horizontal
servo
  vertServo.attach(10); // Use pin 10 PWM output for vertical
servo
}
```

```

/**
 * Main program loop
 */
void loop()
{
  horzVal = analogRead(horzPin);           // Read joystick
horizontal position
  horzVal = map(horzVal, 0, 1023, 0, 179); // Scale reading to
suit servo
  horzServo.write(horzVal);               // Move servo to
required position

  vertVal = analogRead(vertPin);          // Read joystick
vertical position
  vertVal = map(vertVal, 0, 1023, 0, 179); // Scale reading to
suit servo
  vertServo.write(vertVal);               // Move servo to
required position

  delay(15);                               // Give the servos
time to settle
}

```