```
// Potentiometer Variables
int potL;
int potR;

// Mechanical Switch
int mouseSetUp_p;

// Process sensor signals into piston fires and steering
int PistonState; // Piston: 0 (no air) to 1
(pressurized);
int DesiredSteeringAngle; // Steering: -60 to 60

// Impulse length
int currentMillis;
int startMillis;
int p = 1000; // length of timing the impulse of piston

void setup() {
  Serial.begin(9600);
  pinMode(2,INPUT_PULLUP);
}


void loop() {
  potL = analogRead(A0); // reads 0-1023
  potR = analogRead(A1); // reads 0-1023
  mouseSetUp_p = digitalRead(2); // reads LOW = 0 or
HIGH = 5
  currentMillis = millis();

  p = map(potL, 0, 1023, 0, 1000);
```

```
    if (currentMillis - startMillis >= p) {
      PistonState = !PistonState;
      startMillis = currentMillis;
    }
    if (p < 25) {
      PistonState = 0;
    }

  // -60 to 60 is 120 character values
  // b/c potR goes up to 1023, divide by the character
counts needed & subtract the angle desired, 60
  DesiredSteeringAngle = ( ( (120.0/1023.0) * potR) -
60);


    if (mouseSetUp_p == 0){
      PistonState = 666;
      DesiredSteeringAngle = 666;
      }

   Serial.print(PistonState);
  Serial.print(" ");
   Serial.println(DesiredSteeringAngle);
}
```