

Control Surface Example

PieterP

```
1  #include
2  #include
3
4
5  Adafruit_MotorShield AFMSbot(0x61); // Rightmost jumper closed
6  Adafruit_MotorShield AFMStop(0x60); // Default address, no jumpers
7
8
9  Adafruit_DCMotor *mFader6 = AFMSbot.getMotor(1);
10 Adafruit_DCMotor *mFader8 = AFMSbot.getMotor(2);
11 Adafruit_DCMotor *mFader1 = AFMSbot.getMotor(3);
12 Adafruit_DCMotor *mFader3 = AFMSbot.getMotor(4);
13
14 Adafruit_DCMotor *mFader2 = AFMStop.getMotor(1);
15 Adafruit_DCMotor *mFader4 = AFMStop.getMotor(2);
16 Adafruit_DCMotor *mFader5 = AFMStop.getMotor(3);
17 Adafruit_DCMotor *mFader7 = AFMStop.getMotor(4);
18
19
20 int motorSpeed = 250;
21 int Dword;
22
23 //BUTTON INITIALIZE
24 int play = 27;
25 int prehear = 29;
26
27 int listen1 = 45;
28 int listen2 = 43;
29 int listen3 = 41;
30 int listen4 = 39;
31
32 int load1 = 53;
33 int load2 = 51;
34 int load3 = 49;
35 int load4 = 47;
36
37 int loop1 = 37;
38 int loop2 = 35;
39 int loop3 = 33;
40 int loop4 = 31;
41
42 //POT INITIALIZE
43 int tempo = A7;
44 int speed1 = A0;
45 int speed2 = A1;
46 int speed3 = A2;
47 int speed4 = A3;
48
49
50
51
52 void setup() {
53
54     Serial.begin(9600);           // set up Serial library at 9600 bps
55
56     AFMSbot.begin(); // create with the default frequency 1.6KHz
57     AFMStop.begin();
58
59     // Set the speed to start, from 0 (off) to 255 (max speed)
60     mFader1->setSpeed(motorSpeed);
61     mFader2->setSpeed(motorSpeed);
62     mFader3->setSpeed(motorSpeed);
63     mFader4->setSpeed(motorSpeed);
64     mFader5->setSpeed(motorSpeed);
65     mFader6->setSpeed(motorSpeed);
66     mFader7->setSpeed(motorSpeed);
67     mFader8->setSpeed(motorSpeed);
68
69     //Define Buttons as Inputs..
70     pinMode(play, INPUT);
71     pinMode(prehear, INPUT);
72
73     pinMode(listen1, INPUT);
74     pinMode(listen2, INPUT);
75     pinMode(listen3, INPUT);
76     pinMode(listen4, INPUT);
77
78     pinMode(load1, INPUT);
```