```
1    #include "motordriver_4wd.h"
2    #include "structs.h"
3    #include <seeed_pwm.h>
4    #include <StackArray.h>
5
6    //#define DEBUG 1
7    //#define DEBUG_PING_CHECK 1
8    //#define DEBUG_PATH 1
9    //#define DELAY_START 1
10
11   enum {FORWARD, BACKWARD, TURN_LEFT, TURN_RIGHT, STOPPED} moveState;
12   enum {WANDER, WANDEROUT, GOHOME, INCLINE, DONE} machineState;
13
14   //Calibration function prototypes
15   void inline checkTicks();
16   void inline defaultPan();
17   void inline tickStopper();
18   void inline initialTest();
19   void inline lightInit();
20   void inline colorLoop();
21   void inline farthest();
22
23   void setup()
24   {
25     //Individually initialize our components
26     servoInit();
27     moveInit();
28     buttonInit();
29     lightInit();
30     diodeInit();
31     worldNavInit();
32
33     initialTest();
34
35     clavInit();
36
37     #ifdef DELAY_START
38     lightCycle(250);
39     #endif
40
41     //Initialize the serial communications:
42     Serial.begin(9600);
43   }
44
45   void loop()
46   {
47     //forward(20);
48     clavBrain();
49     //farthest();
50     //Serial.println( getDiodeVal() );
51   }
```