

```

1 // UserConfiguration.h
2 //
3 //
4 /*=====
5 /*=====
6 /*===== START USER CONFIGURATION FOR THE I/O =====
7 /*=====
8 /*=====
9 //
10 // Define all used pins for the application.
11 //
12 // The range of digitals is commonly used. First to define the inputs, outputs and ultrasonics.
13 // The analog out and servo pins are in the PWM range of the board.
14 //
15 const byte NoInputPins    = 1;
16 const byte FirstInput     = 22;
17 const byte NoOutputPins   = 0;
18 const byte FirstOutput    = 0;
19 const byte NoUltrasonic   = 0;
20 const byte FirstUltra     = 0;
21 const byte NoAnaInPins    = 0;
22 const byte FirstAnaIn     = 0;
23 const byte NoAnaOutPins   = 0;
24 const byte FirstAnaOut    = 0;
25 const byte NoServos       = 0;
26 const byte FirstServo     = 0;
27 const byte NoTemp         = 0;
28 const byte OneWireChannel = 0;
29 const byte NoMarkers      = 0;
30 //
31 // IMPORTANT!
32 //
33 // No. of tag names have to be equal with No. of pins! This is the addressing part between the pins and the tags!
34 // Tag names are connected with the in/outputs by their order. When done correctly it is possible to program all
35 // software by tags and phases in an easy way. Don't remove Tag lines (if not used keep them empty)!

```

```
36 //
37 String DummyTags[] = { "" };
38 String InputTags[] = { "TESTSMS" };
39 String OutputTags[] = { "" };
40 String AnaInTags[] = { "" };
41 String AnaOutTags[] = { "" };
42 String ServoTags[] = { "" };
43 String UltraTags[] = { "" };
44 String MarkerTags[] = { "" };
45 String TempTags[] = { "" };
46 //
47 // Declaration of all used states in the FSM.
48 // The first and last state "START"and "END" are obligatory and may not be removed, the rest is up to you
49 //
50 String PossibleFSMStates[] = { "START",
51                                "TEST",
52                                "WAITING",
53                                "PENDINGSTOP",
54                                "PENDINGDRIVE",
55                                "NOTMOVING",
56                                "DRIVING",
57                                "END" };
58 //
59 // Start defining User timers don't use predefined timers (stay out of range 200-300)
60 //
61 const byte TimPendingDrive = 100;
62 const byte TimPendingStop = 101;
63 const byte TimInterval = 102;
64 const byte TimStopped = 103;
65
66 //
67 // End defining user timers
68 //
69 // START USER SPECIFIC DECLARATIONS
70 //
```

```
71 // Start User variables:
72 //
73
74 boolean Stopped = true;
75
76 // End User variables:
77 //
78 // use of the extra MEGA board for the messages, use MessageI2C and/or UseHMISerial, do not remove, only set true or false
79 //
80 boolean UseI2C = false;
81 boolean UseHMISerial = true;
82 boolean UseGPS = true;
83 //
84 //*=====
85 //*=====
86 //*=====  END USER CONFIGURATION =====
87 //*=====
88 //*=====
```