```
// UserConfiguation.h
//
//
//*============================================================================================
//*============================================================================================
//*============  START USER CONFIGURATION FOR THE I/O   ======================================
//*============================================================================================
//*============================================================================================
//
// Define all used pins for the application.
//
// The range of digitals is commenly used. First to define the inputs,outputs and ultrasonics.
// The analog out en servo pins are in the PWN range of the board.
//
const byte NoInputPins    =  6;
const byte FirstInput     = 40;
const byte NoOutputPins   =  5;
const byte FirstOutput    = 22;
const byte NoUltrasonic   =  0;
const byte FirstUltra     =  0;
const byte NoAnaInPins    =  1;
const byte FirstAnaIn     =  4;
const byte NoAnaOutPins   =  1;
const byte FirstAnaOut    =  6;
const byte NoServos       =  0;
const byte FirstServo     =  0;
const byte NoTemp         =  1;
const byte OneWireChannel =  4;
const byte NoMarkers      =  0;
//
// IMPORTANT!
//
// No. of tagnames have to be equal with No. of pins! This is the addressing part between the pins and the tags!
// Tagnames are connected with the in/outputs by their order. When done correctly it is possible to programm all
// software by tags and phases in an easy way. Don't remove Tag lines (if not used keep them empty)!
//
String DummyTags[]   = { "" };
String InputTags[]   = { "S1","S2","S3","S4","PWM","S5" };
String OutputTags[]  = { "LED1", "LED2", "LED3", "LED4", "LED5" };
String AnaInTags[]   = { "ANAIN1" };
String AnaOutTags[]  = { "ADC1" };
String ServoTags[]   = { "" };
String UltraTags[]   = { "" };
String MarkerTags[]  = { "" };
String TempTags[]    = { "TTIN1" };
//
// Declaration of all used states in the FSM.
// The first and last state "START"and "END" are obligatory and may not be removed, the rest is up to you
//
String PossibleFSMStates[] = { "START",
                               "TASK2",
                               "TASK3",
                               "TASK4",
                               "MULTITASK",
                               "END" };
//
```

```
57  // Start defining User timers don't use predefined timers (stay out of range 200-300)
58  //
59
60  //
61  // End defining user tinmers
62  //
63  // START USER SPECIFIC DECLARATIONS
64  //
65  // Start User varaibles:
66  //
67  const byte timTask1 = 1;
68  const byte timTask2 = 2;
69  const byte timTask3 = 3;
70  const byte timTask4 = 4;
71  const byte timADC = 5;
72  boolean AanUitTask1;
73  boolean AanUitTask2;
74  boolean AanUitTask3;
75  boolean AanUitTask4;
76  int ADConverter = 0;
77  // End User varaibles:
78  //
79  // use of the extra MEGA board for the messages, use MessageI2C and/or UseHMISerial, do not remove, only set true or false
80  //
81  boolean UseI2C = false;
82  boolean UseHMISerial = true;
83  //
84  //*================================================================================================
85  //*==============  END USER CONFIGURATION ========================================================
86  //*================================================================================================
87  //*================================================================================================
88  //*================================================================================================
```