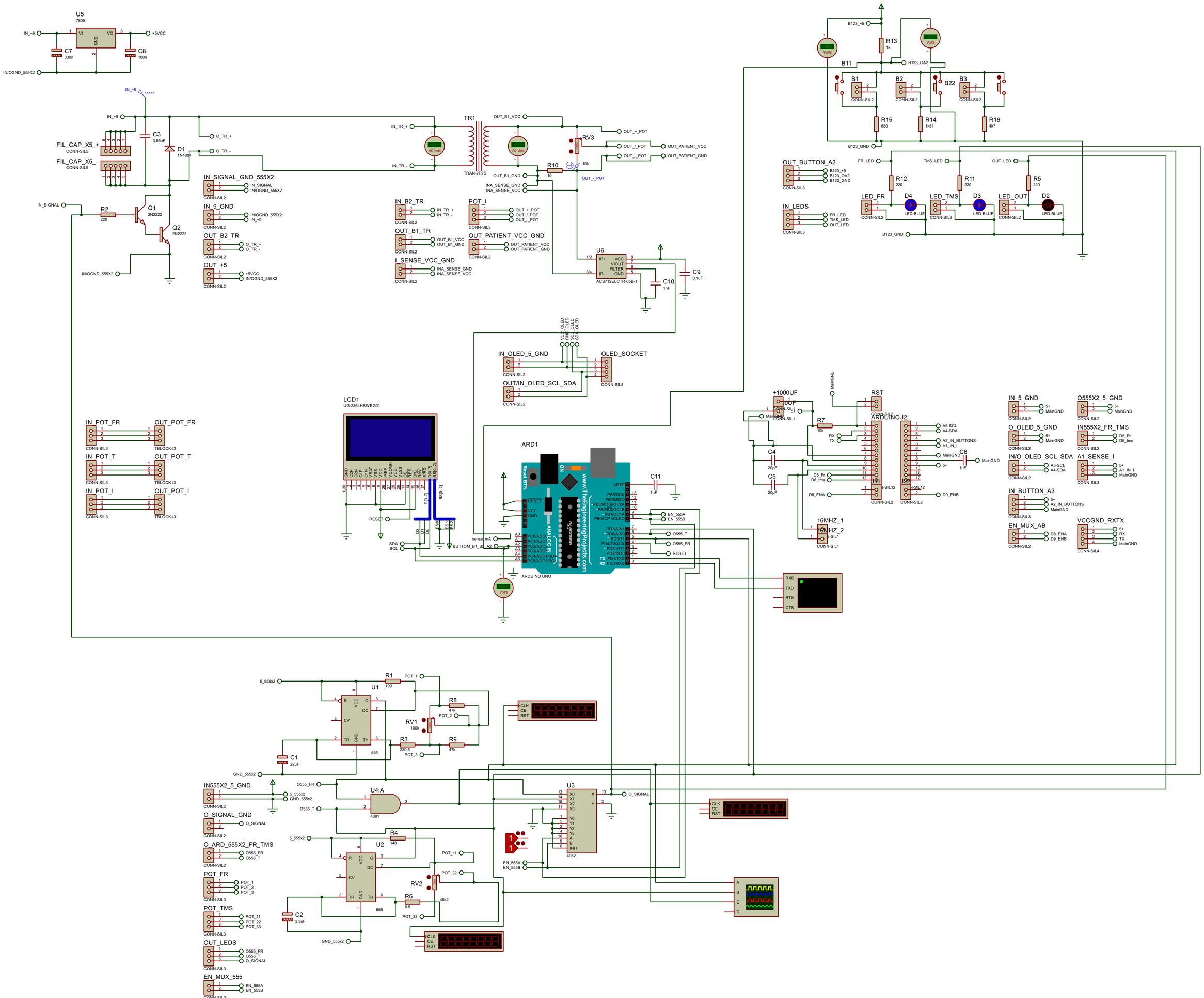
U5
7805
IN_+9
+5VCC
C7
330n
C8
100n
IN/OGND_555X2
FIL_CAP_X5_+
FIL_CAP_X5_-
C3
3.85uF
D1
1N4004
IN_SIGNAL
R2
220
Q1
2N2222
Q2
2N2222
IN_SIGNAL_GND_555X2
IN_9_GND
OUT_B2_TR
OUT_+5
TR1
TRAN-2P2S
IN_TR_+
IN_TR_-
OUT_B1_VCC
OUT_B1_GND
INA_SENSE_GND
INA_SENSE_VCC
RV3
10k
R10
10
OUT_+_POT
OUT_/_POT
OUT_-_POT
OUT_PATIENT_VCC
OUT_PATIENT_GND
IN_B2_TR
POT_I
OUT_B1_TR
OUT_PATIENT_VCC_GND
I_SENSE_VCC_GND
U6
ACS712ELCTR-05B-T
C10
1nF
C9
0.1uF
IN_OLED_5_GND
OUT/IN_OLED_SCL_SDA
OLED_SOCKET
VCC_OLED
GND_OLED
SCL_OLED
SDA_OLED
LCD1
UG-2864HSWEG01
IN_POT_FR
OUT_POT_FR
IN_POT_T
OUT_POT_T
IN_POT_I
OUT_POT_I
ARD1
ARDUINO UNO
www.TheEngineeringProjects.com
C11
1nF
EN_555A
EN_555B
O555_T
O555_FR
RESET
sense_mA
BUTTON_B1_B2_A2
SDA
SCL
B123_+5
R13
1k
B11
B123_OA2
B1
B2
B22
B3
R15
680
R14
1k51
R16
4k7
B123_GND
OUT_BUTTON_A2
IN_LEDS
FR_LED
TMS_LED
OUT_LED
R12
220
R11
220
R5
220
LED_FR
D4
LED-BLUE
LED_TMS
D3
LED_OUT
D2
+1000UF
RST
R7
10k
RX
TX
C4
20pF
C5
20pF
ARDUINOJ2
D5_Fr
D6_tms
D8_ENA
D9_ENB
C6
1uF
16MHZ_1
16MHZ_2
IN_5_GND
O555X2_5_GND
O_OLED_5_GND
IN555X2_FR_TMS
IN/O_OLED_SCL_SDA
A1_SENSE_I
IN_BUTTON_A2
EN_MUX_AB
VCCGND_RXTX
RXD
TXD
RTS
CTS
R1
199
U1
555
R8
47k
RV1
100k
R3
220.5
R9
47k
C1
22uF
IN555X2_5_GND
O_SIGNAL_GND
O_ARD_555X2_FR_TMS
POT_FR
POT_TMS
OUT_LEDS
EN_MUX_555
U4:A
4081
U3
4052
R4
148
U2
RV2
100k
R6
8.5
45k2
C2
3.3uF
CLK
CE
RST