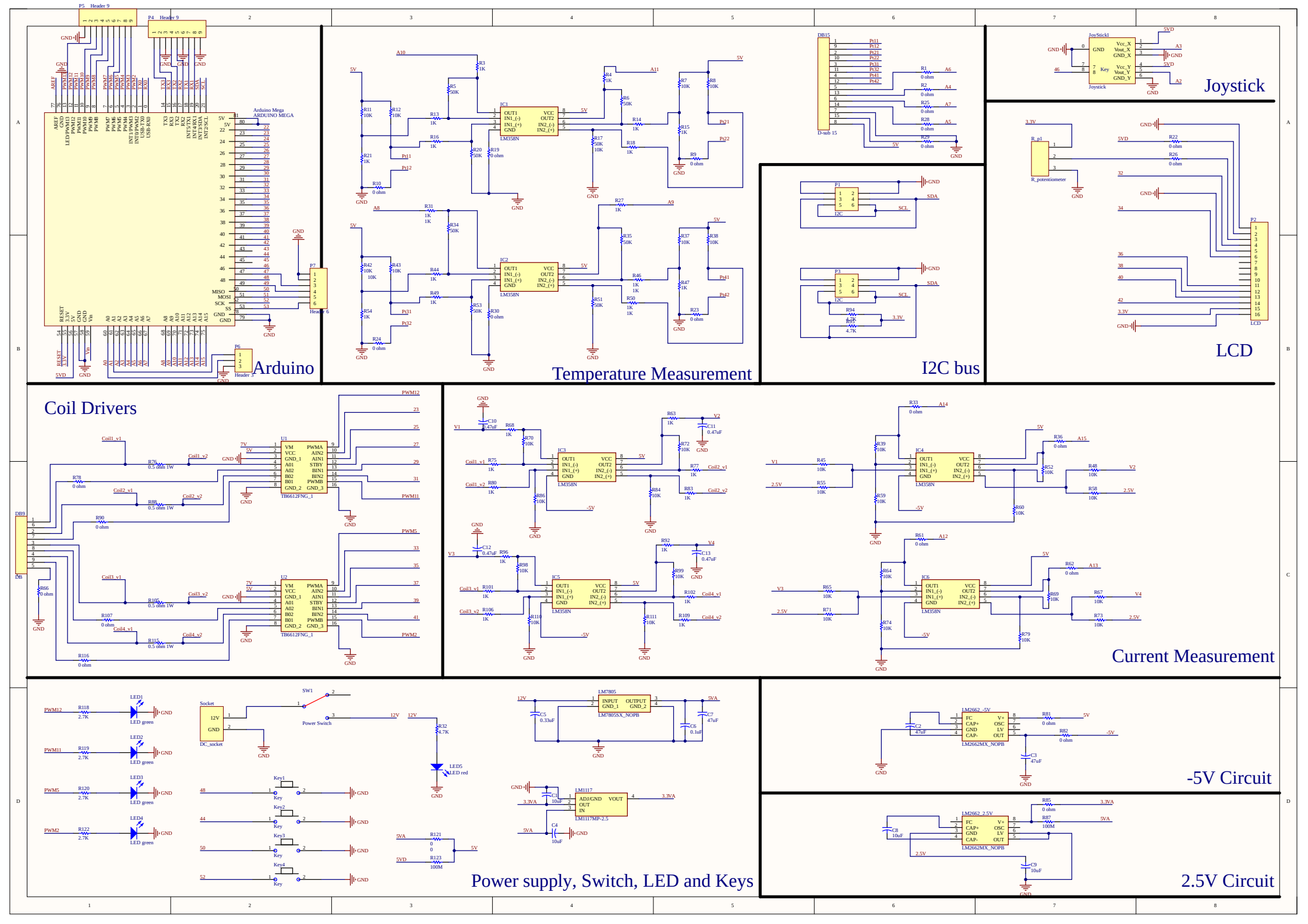
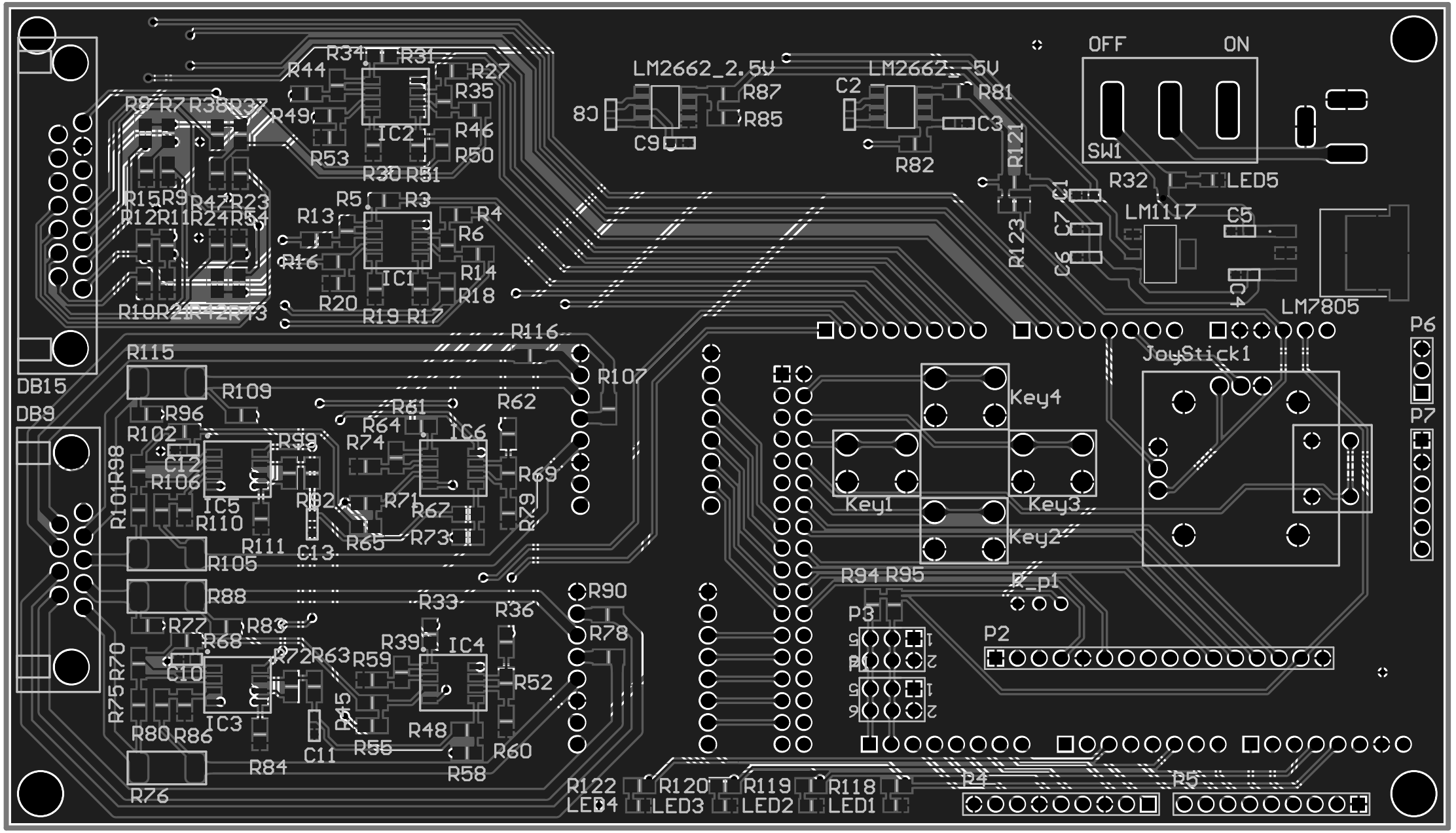

Arduino
Temperature Measurement
I2C bus
Joystick
LCD
Coil Drivers
Current Measurement
Power supply, Switch, LED and Keys
-5V Circuit
2.5V Circuit


OFF
ON
SW1
LM2662_2.5V
LM2662_-5V
LM1117
LM7805
LED5
LED4
LED3
LED2
LED1
Key1
Key2
Key3
Key4
JoyStick1
DB15
DB9
P2
P3
P4
P5
P6
P7
IC1
IC2
IC3
IC4
IC5
IC6

Comment	Description	Designator	Footprint	LibRef	Quantity
ARDUINO MEGA		Arduino Mega	PCBComponent_1	ARDUINO MEGA	1
10uF	Capacitor	C1, C4, C8, C9	C0603	Cap2	4
47uF	Capacitor	C2, C3, C7	C0603	Cap2	3
0.33uF	Capacitor	C5	C0603	Cap2	1
0.1uF	Capacitor	C6	C0603	Cap2	1
0.47uF	Capacitor	C10, C11, C12, C13	C0603	Cap2	4
DB		DB9	PCBComponent_1	DB	1
D-sub 15		DB15	DB15	D-sub 15	1
LM358N	Integrated Circuit	IC1, IC2, IC3, IC4, IC5, IC6	8-SOIC	LM358N	6
Joystick		JoyStick1	PCBComponent_1	Component_1	1
Key		Key1, Key2, Key3, Key4	PCBComponent_1	Key	4
LED green	Typical RED GaAs LED	LED1, LED2, LED3, LED4	6-0805_L	LED1	4
LED red	Typical RED GaAs LED	LED5	6-0805_L	LED1	1
LM1117MP-2.5	Integrated Circuit	LM1117	SOT230P696X180-4N	LM1117MP-2.5	1
LM2662MX_NOPB	Integrated Circuit	LM2662_2.5V, LM2662_-5V	SOIC127P600X175-8N	LM2662MX_NOPB	2
LM7805SX_NOPB	Integrated Circuit	LM7805	KTT0003B	LM7805SX_NOPB	1
I2C	Header, 3-Pin, Dual row	P1, P3	HDR2X3	Header 3X2	2
LCD	Header, 16-Pin	P2	HDR1X16	Header 16	1
Header 9	Header, 9-Pin	P4, P5	HDR1X9	Header 9	2
Header 3	Header, 3-Pin	P6	HDR1X3	Header 3	1
Header 6	Header, 6-Pin	P7	HDR1X6	Header 6	1
0 ohm	Resistor	R1, R2, R9, R10, R19, R22, R23, R24, R25, R26, R28, R29, R30, R33, R36, R61, R62, R66, R78, R81, R82, R85, R90, R107, R116	6-0805_M	Res1	25
1K	Resistor	R3, R4, R13, R14, R15, R16, R18, R21, R27, R31, R44, R46, R47, R49, R50, R54, R63, R68, R75, R77, R80, R83, R92, R96, R101, R102, R106, R109	6-0805_M	Res1	28
50K	Resistor	R5, R6, R17, R20, R34, R35, R51, R53	6-0805_M	Res1	8
10K	Resistor	R7, R8, R11, R12, R37, R38, R39, R42, R43, R45, R48, R52, R55, R58, R59, R60, R64, R65, R67, R69, R70, R71, R72, R73, R74, R79, R84, R86, R98, R99, R110, R111	6-0805_M	Res1	32
4.7K	Resistor	R32, R94, R95	6-0805_M	Res1	3
0.5 ohm 1W	Resistor	R76, R88, R105, R115	2512-L	Res1	4
100M	Resistor	R87, R123	6-0805_M	Res1	2
2.7K	Resistor	R118, R119, R120, R122	6-0805_M	Res1	4
0	Resistor	R121	6-0805_M	Res1	1
R_potentiometer		R_p1	PCBComponent_1	R_potentiometer	1
DC_socket		Socket	PCBComponent_1	DC_socket	1
Power Switch		SW1	PCBComponent_1	Component_1	1
TB6612FNG_1	Undefined or Miscellaneous	U1, U2	ROB14450	ROB-14450	2