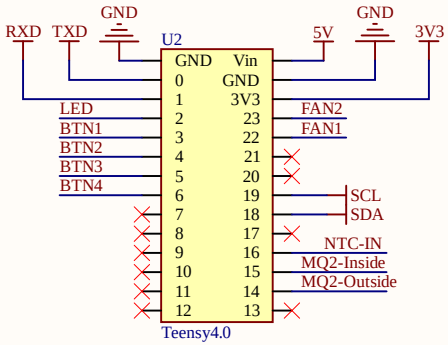
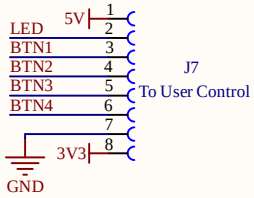
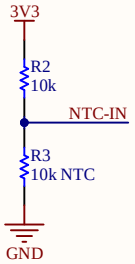
Teensy 4.0 - MCU1

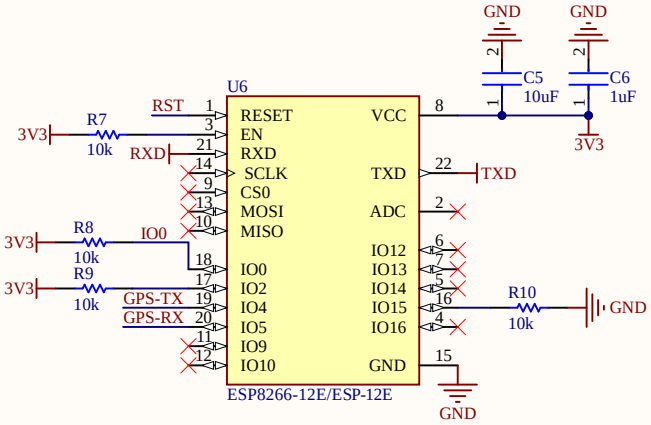




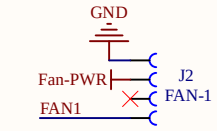
Inside Temp

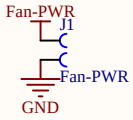


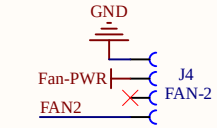
ESP8266 - MCU2

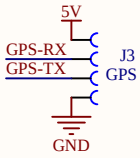


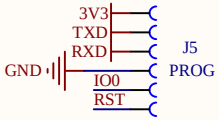
Connectors

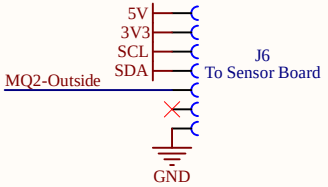




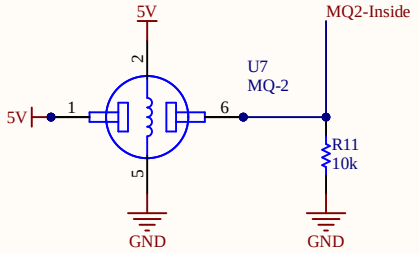






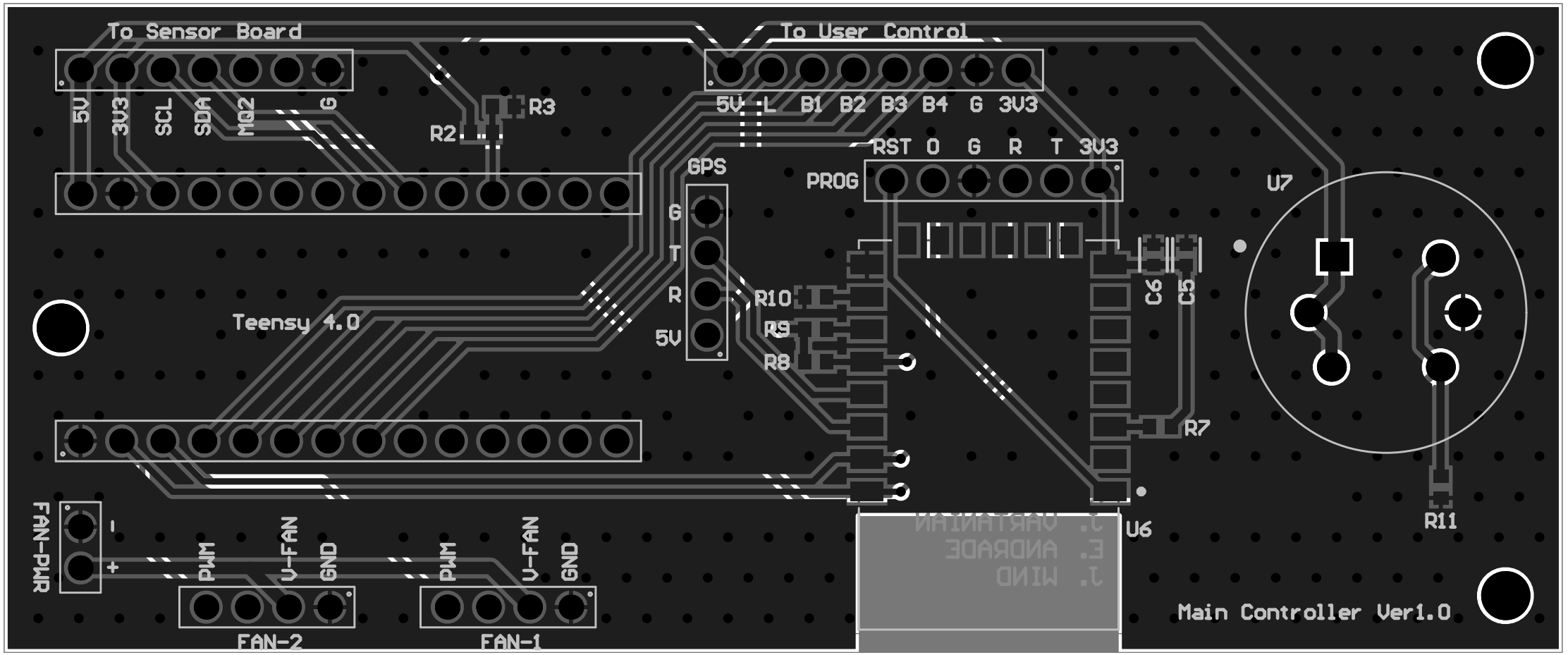


MQ2-Inside



Title: ***Microcontrollers and Peripherals***		
Size: A4	Author: K. Pereira, J. Vartanian, E. Andrade, J. Wind	Revision: 1.0
Date: May 2021		Sheet: 1 of 1

Ignis Automation
15 Broadway
Ultimo, Sydney
NSW, 2007
Australia


To Sensor Board
5V
3V3
SCL
SDA
MQ2
G
R2
R3
To User Control
5V
L
B1
B2
B3
B4
G
3V3
RST
O
G
R
T
3V3
PROG
GPS
G
T
R
5V
R10
R9
R8
Teensy 4.0
C6
C5
U7
R7
U6
R11
FAN-PWR
-
+
PWM
V-FAN
GND
PWM
V-FAN
GND
FAN-2
FAN-1
Main Controller Ver1.0

Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	CAP CER 10UF 16V X5R 0603	C5	FP-CL10-IPC_C	CMP-13271-003248-1	1
1uF	CAP CER 1UF 25V X5R 0603	C6	FP-CL10-IPC_C	CMP-13271-003248-1	1
Fan-PWR	2 Pin	J1	61300711821	61300711821	1
FAN-1	4 Pin	J2	61300711821	61300711821	1
GPS	4 Pin	J3	61300711821	61300711821	1
FAN-2	4 Pin	J4	61300711821	61300711821	1
PROG	6 Pin	J5	61300711821	61300711821	1
To Sensor Board	7 Pin	J6	61300711821	61300711821	1
To User Control	8 Pin	J7	61300711821	61300711821	1
10k	RES SMD 10K OHM 1% 1/10W 0603	R2, R7, R8, R9, R10, R11	RESC1608X55X30NL15T15	CMP-2000-00180-1	6
10k NTC	THERMISTOR NTC 10KOHM 4250K 0603	R3	RESC1608X55X30NL15T15	CMP-2000-00180-1	1
Teensy4.0	Teensy4.0	U2	61301411821	Teensy4.0	1
ESP8266-12E/ESP-12E	RX TXRX MOD WIFI TRACE ANT SMD	U6	XCVR_ESP8266-12E/ESP-12E	ESP8266-12E/ESP-12E	1
MQ-2	MQ-2 Gas Sensor	U7	XDCR_SEN-08880	MQ-2	1