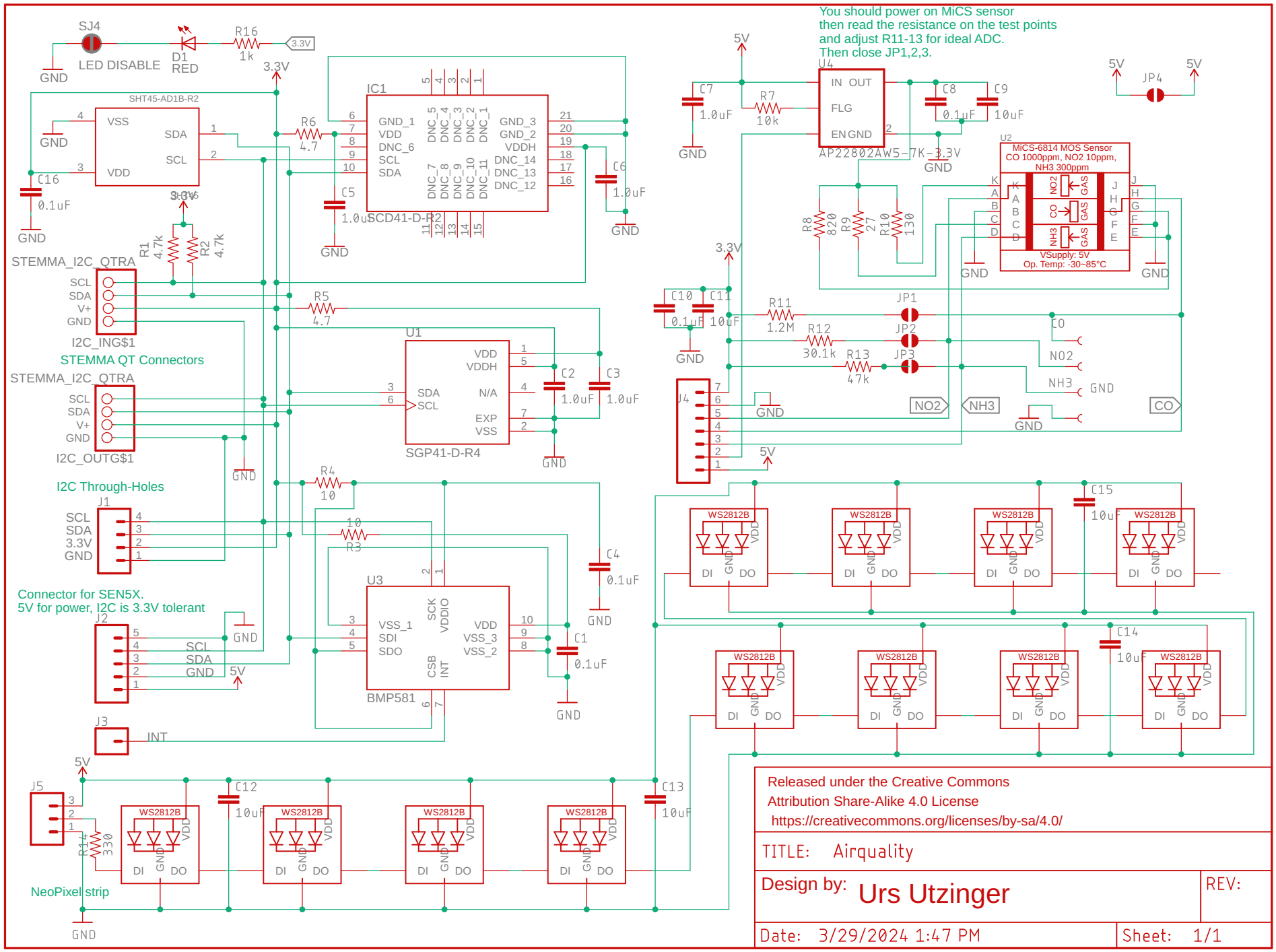
You should power on MiCS sensor
then read the resistance on the test points
and adjust R11-13 for ideal ADC.
Then close JP1,2,3.
SJ4
LED DISABLE
D1
RED
R16
1k
3.3V
GND
SHT45-AD1B-R2
VSS
SDA
SCL
VDD
C16
0.1uF
R1
4.7k
R2
4.7k
R6
4.7
IC1
SCD41-D-R2
GND_1
VDD
DNC_6
SCL
SDA
DNC_5
DNC_4
DNC_3
DNC_2
DNC_1
GND_3
GND_2
VDDH
DNC_14
DNC_13
DNC_12
DNC_7
DNC_8
DNC_9
DNC_10
DNC_11
C5
1.0uF
C6
1.0uF
STEMMA_I2C_QTRA
SCL
SDA
V+
GND
I2C_ING$1
STEMMA QT Connectors
STEMMA_I2C_QTRA
I2C_OUTG$1
R5
4.7
U1
SGP41-D-R4
VDD
VDDH
N/A
EXP
VSS
C2
1.0uF
C3
1.0uF
R4
10
R3
10
I2C Through-Holes
J1
SCL
SDA
3.3V
GND
Connector for SEN5X.
5V for power, I2C is 3.3V tolerant
J2
SCL
SDA
GND
5V
U3
BMP581
VSS_1
SDI
SDO
SCK
VDDIO
CSB
INT
VDD
VSS_3
VSS_2
C4
0.1uF
C1
0.1uF
J3
INT
J5
R14
330
NeoPixel strip
WS2812B
DI
GND
DO
VDD
C12
10uF
C13
10uF
C14
10uF
C15
10uF
C7
1.0uF
R7
10k
U4
IN
OUT
FLG
EN
GND
AP22802AW5-7K
C8
0.1uF
C9
10uF
JP4
U2
MiCS-6814 MOS Sensor
CO 1000ppm, NO2 10ppm,
NH3 300ppm
NO2
CO
NH3
GAS
VSupply: 5V
Op. Temp: -30~85°C
R8
820
R9
27
R10
130
C10
0.1uF
C11
10uF
R11
1.2M
R12
30.1k
R13
47k
JP1
JP2
JP3
J4
CO
NO2
NH3
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TITLE: Airquality
Design by: Urs Utzinger
REV:
Date: 3/29/2024 1:47 PM
Sheet: 1/1