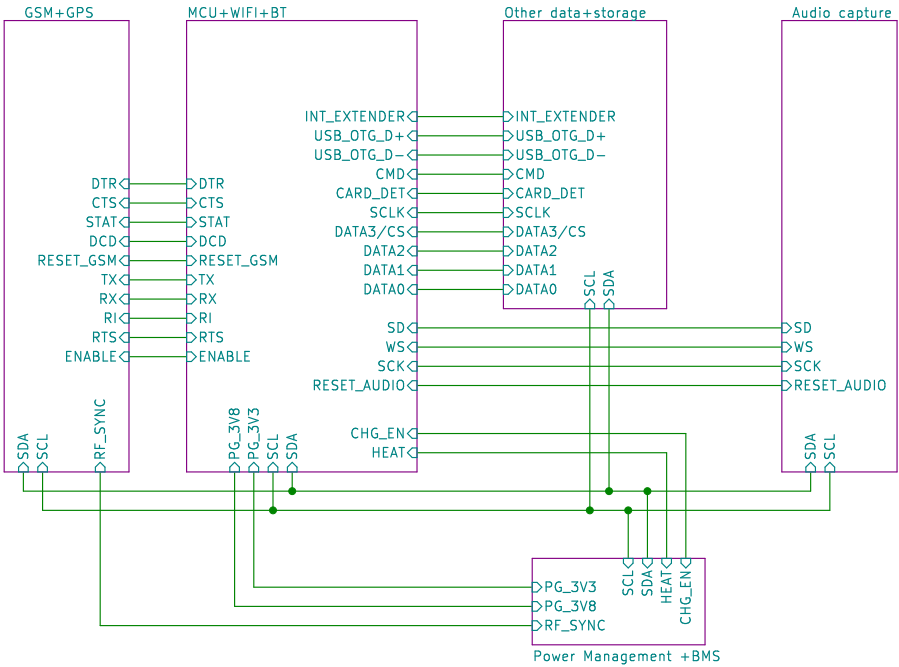
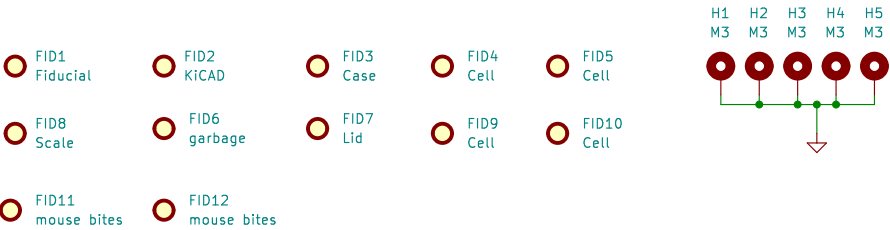


All SMD caps ceramic are 0603 16V X7R or better unless other notes are made  
All SMD resistors are 0603  
Stack up:  
4 layer FR4 sig gnd gnd+sig sig  
Delata(T) aimed for is 20C or less

I2C ADRESSES	
BME280	0x76
TLV320ADC3100	0x30
TCA9554A	0x21
INA3221	0x40
TCA9545APWR	0x20



## CASE+ GRAPHICS + MECHANICAL



Layout by: Kecs Robert Alfred  
Verified by: Kecs Robert Alfred  
Designed by: Kecs Robert Alfred

Sheet: /  
File: Bird\_detector\_V1.kicad\_sch

**Title: Bird Detection and Recognition System**

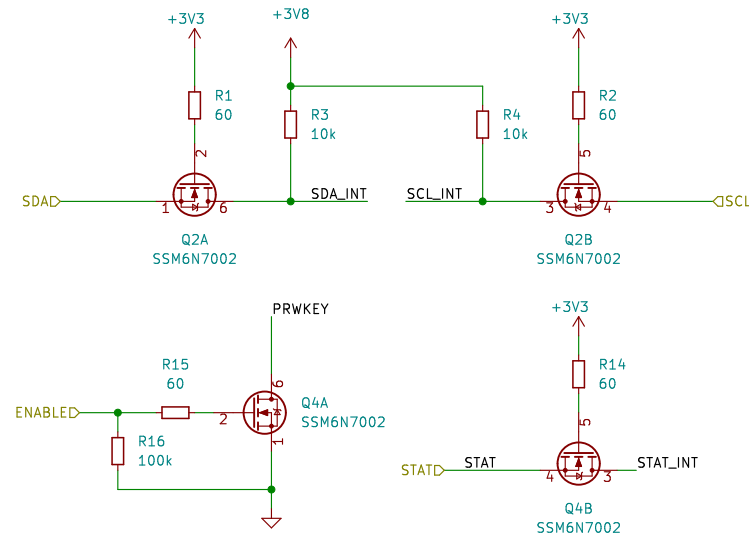
Size: A3 Date: 2022-11-23

KiCad E.D.A. kicad (6.0.9)

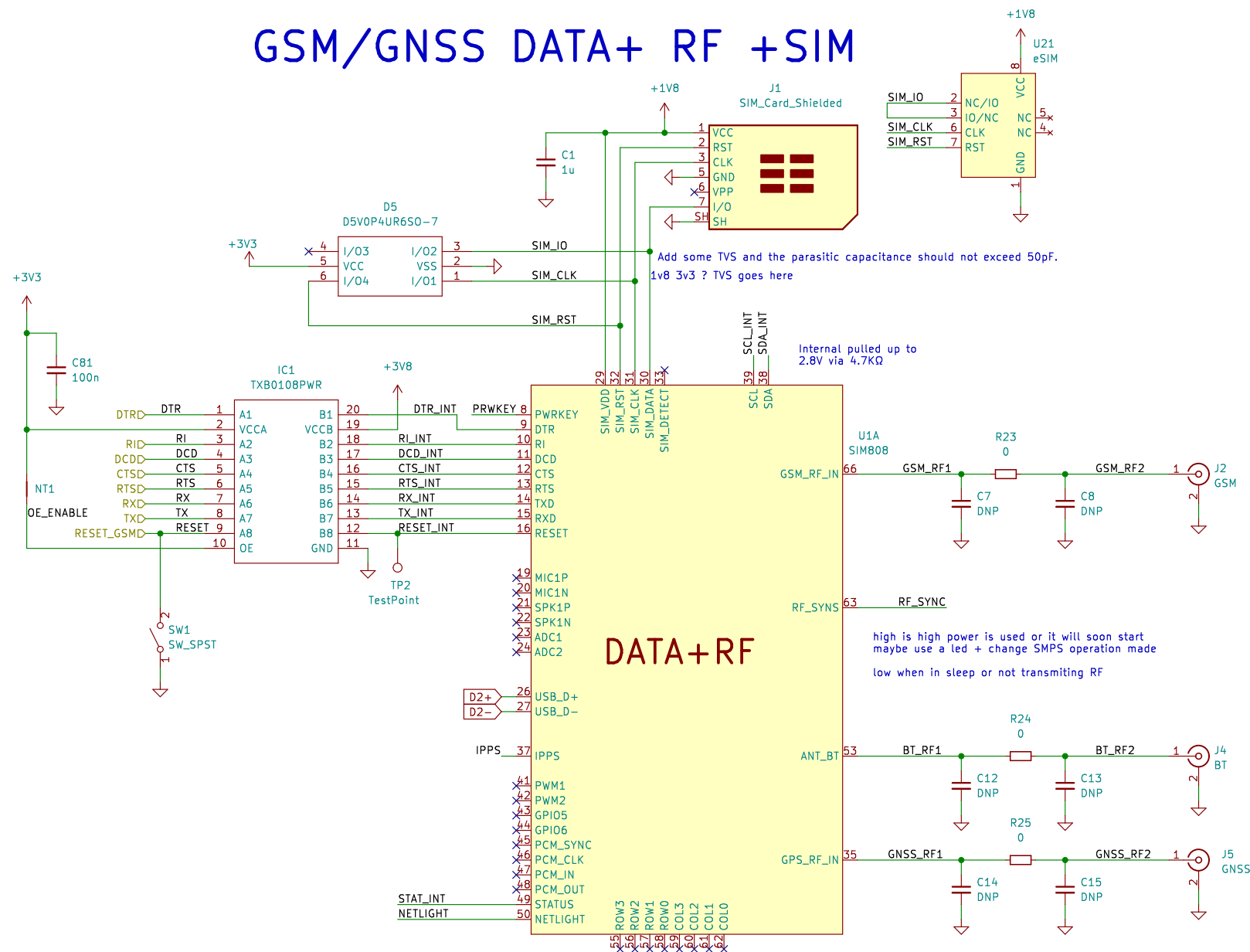
Rev: V0.1

Id: 1/8

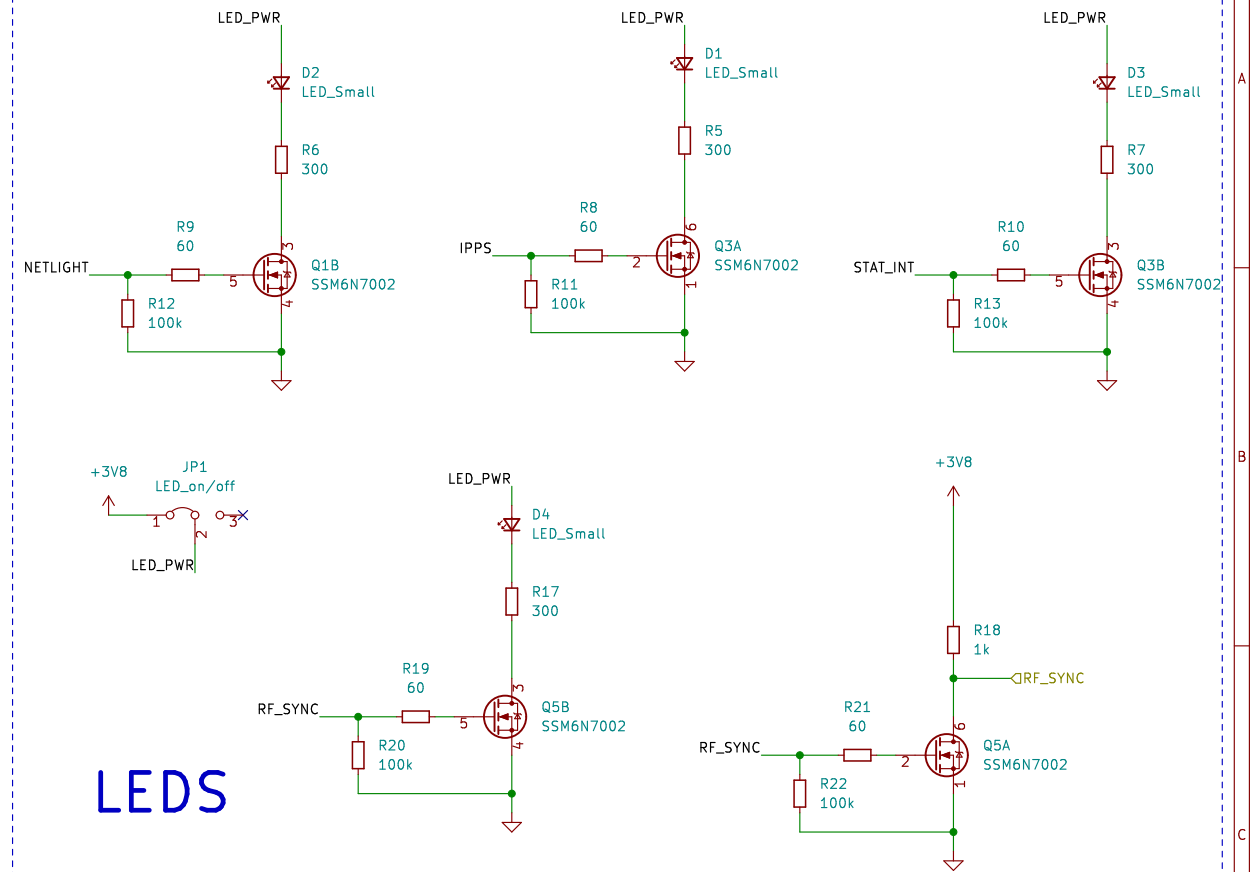
## LEVEL SHIFTERS



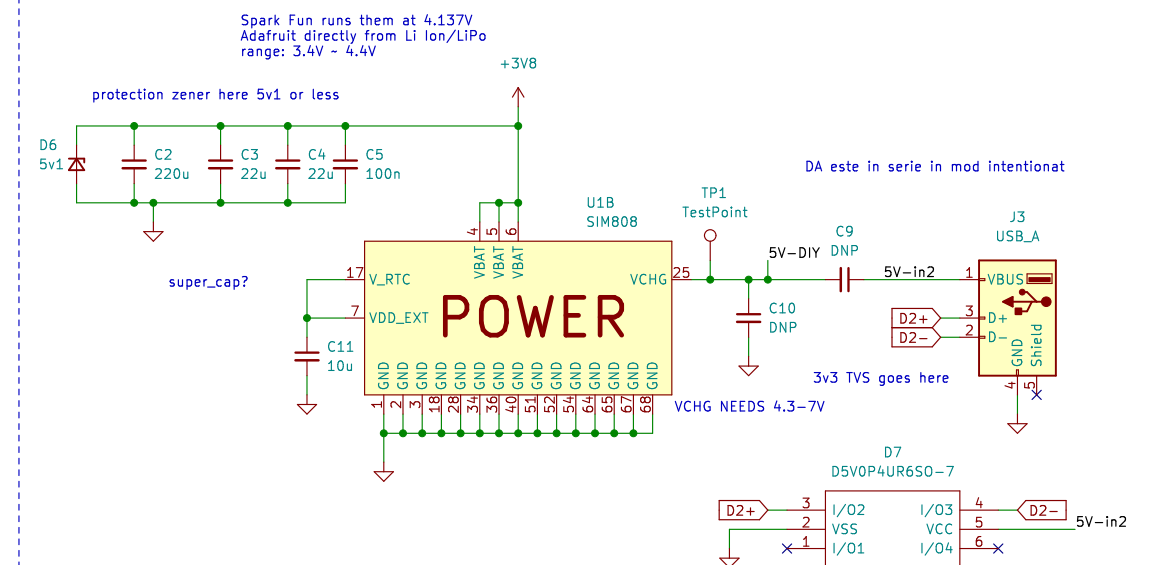
## GSM/GNSS DATA+ RF +SIM



## LEDS



## GNNS/GSM POWER



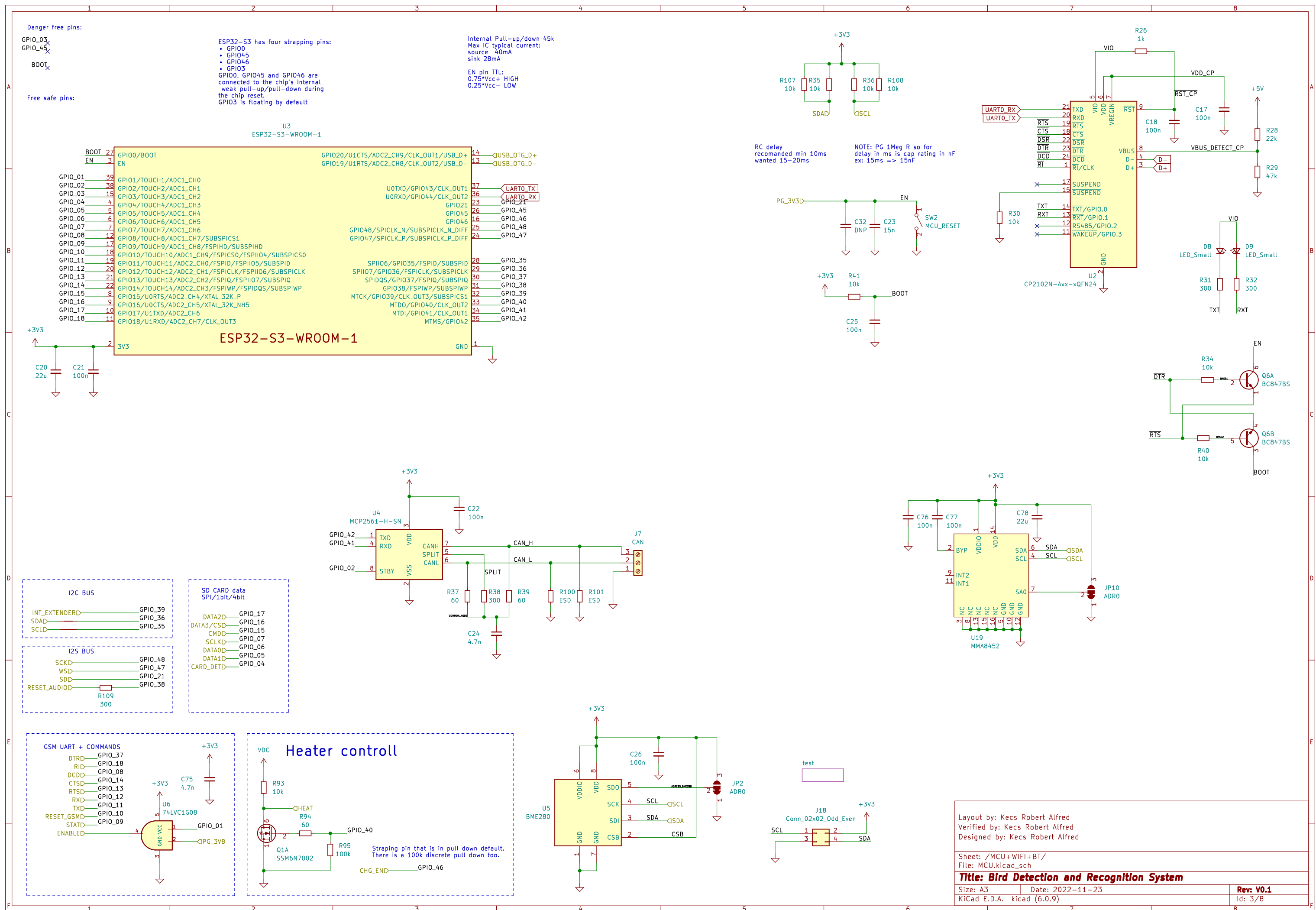
Layout by: Kec Robert Alfred  
Verified by: Kec Robert Alfred  
Designed by: Kec Robert Alfred

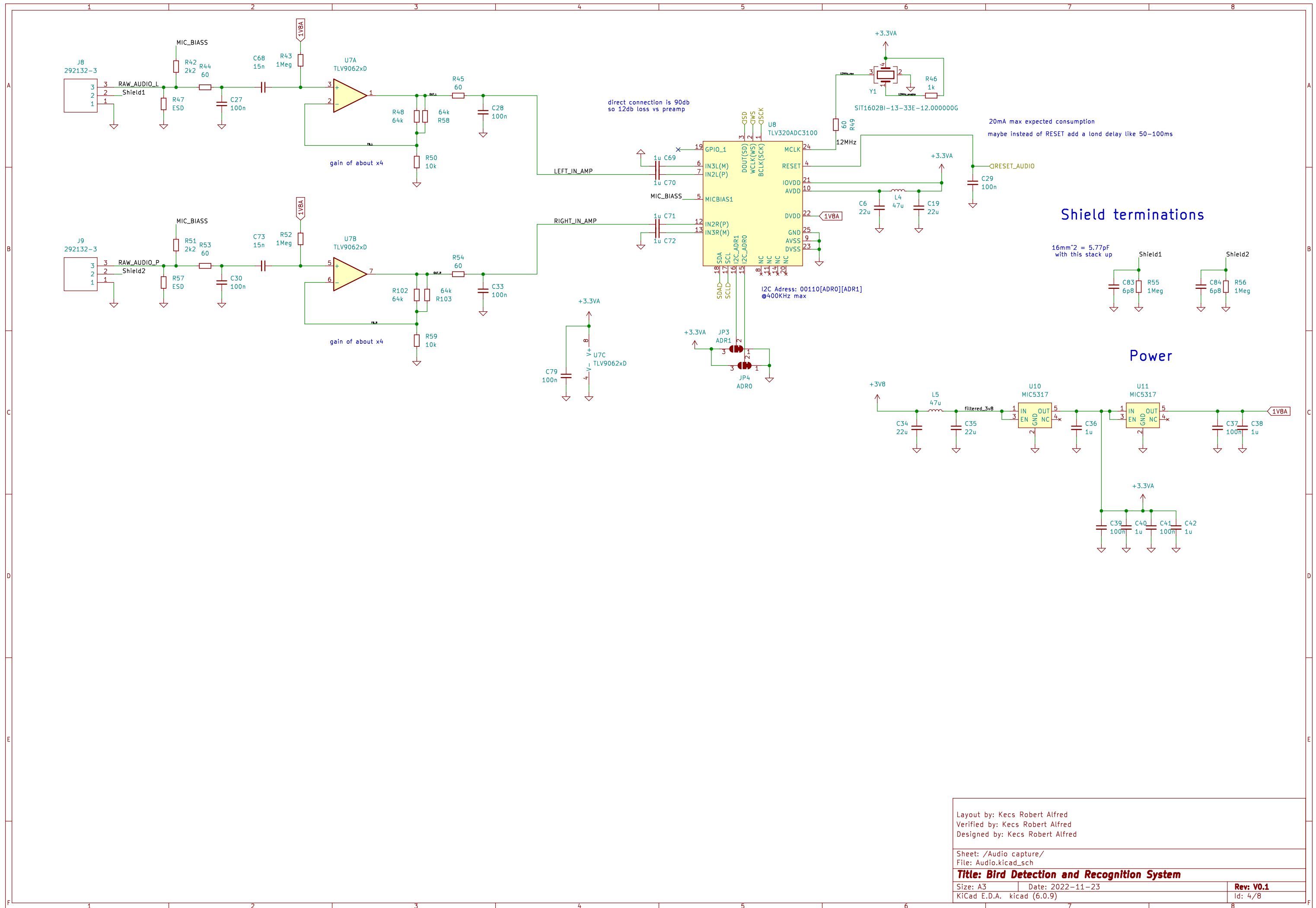
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File: RF.kicad\_sch

**Title: Bird Detection and Recognition System**

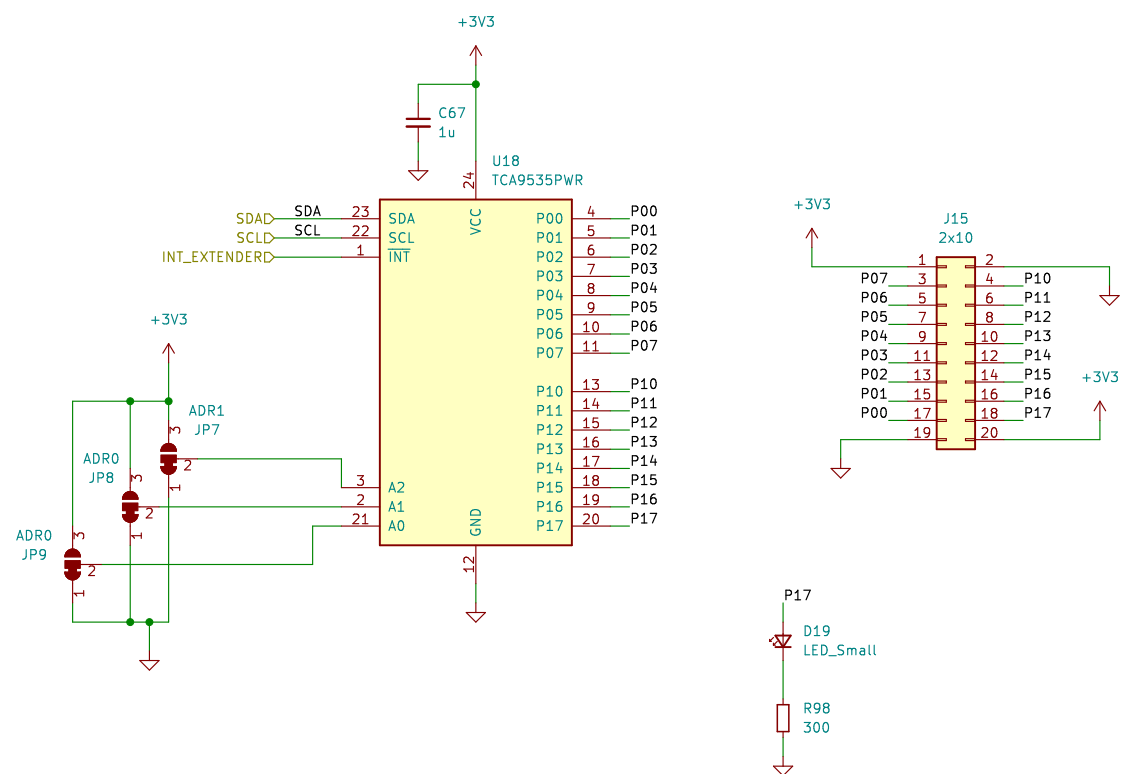
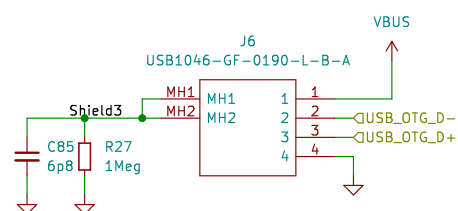
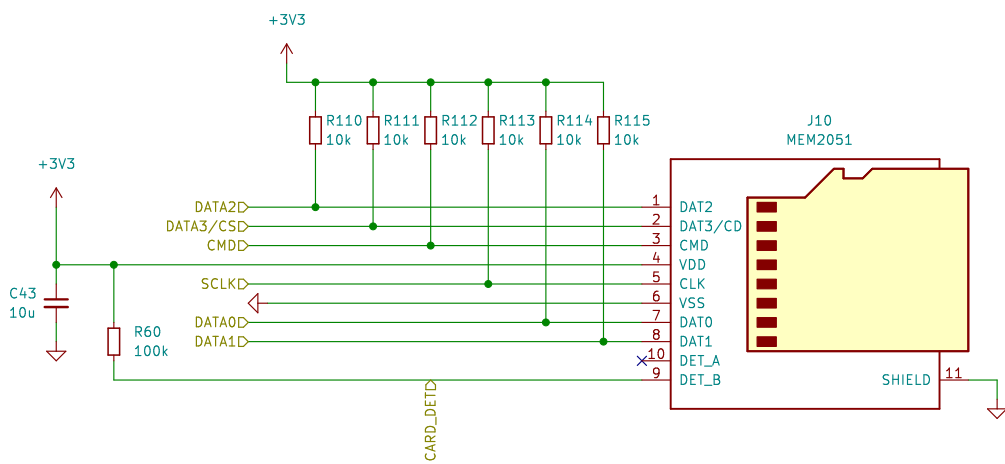
Size: A3 Date: 2022-11-23  
KiCad E.D.A. kicad (6.0.9)

Rev: V0.1  
Id: 2/8





Layout by: Kecs Robert Alfred Verified by: Kecs Robert Alfred Designed by: Kecs Robert Alfred		
Sheet: /Audio capture/ File: Audio.kicad_sch		
<b>Title: Bird Detection and Recognition System</b>		
Size: A3	Date: 2022-11-23	Rev: V0.1
KiCad E.D.A. kicad (6.0.9)		Id: 4/8



Layout by: Kec Robert Alfred  
Verified by: Kec Robert Alfred  
Designed by: Kec Robert Alfred

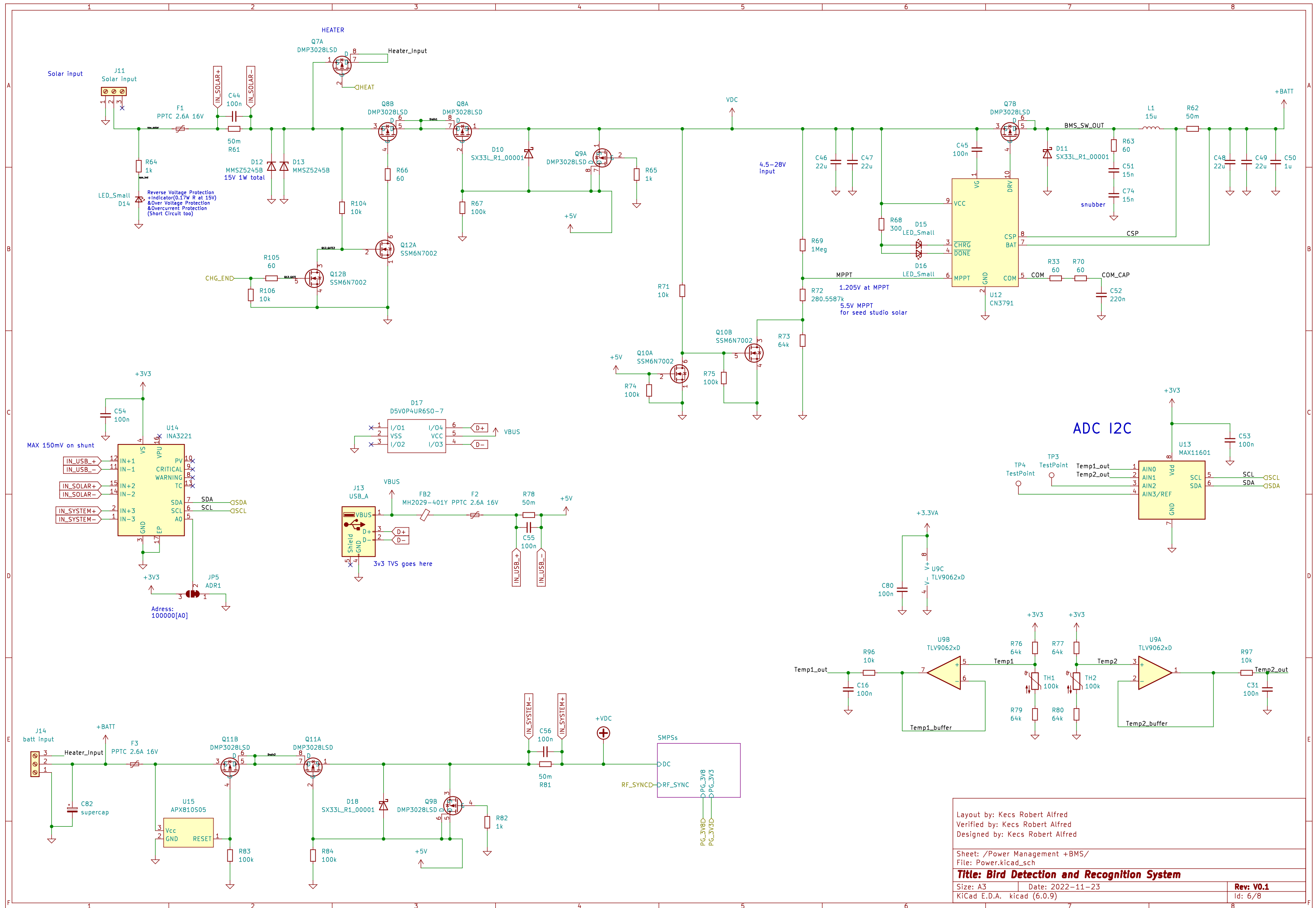
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File: SDcard.kicad\_sch

Title: Bird Detection and Recognition System

Size: A3	Date: 2022-11-23
KiCad E.D.A. kicad (6.0.9)	

Rev: V0.1

Id: 5/8



Layout by: Kec Robert Alfred  
 Verified by: Kec Robert Alfred  
 Designed by: Kec Robert Alfred

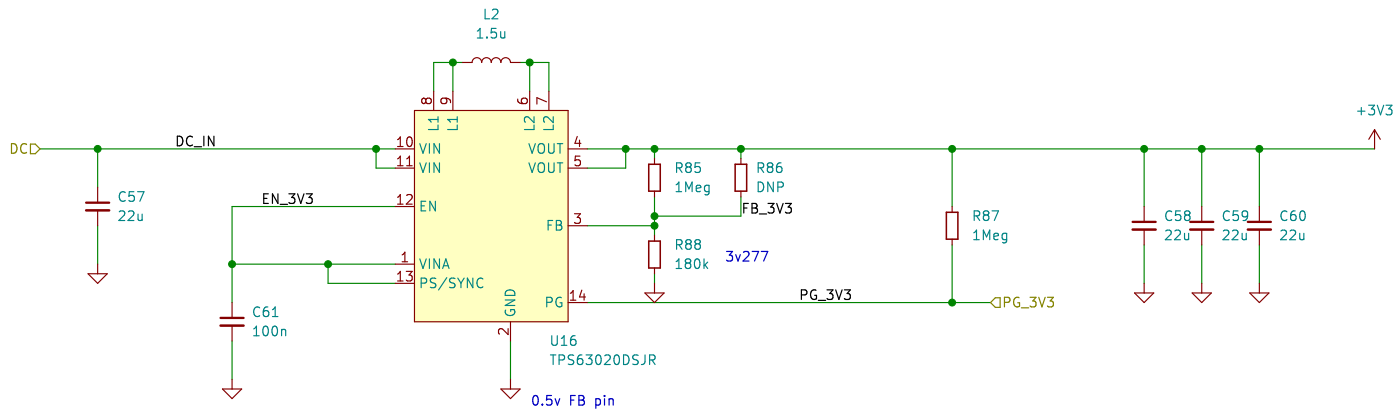
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 File: Power.kicad\_sch

**Title: Bird Detection and Recognition System**

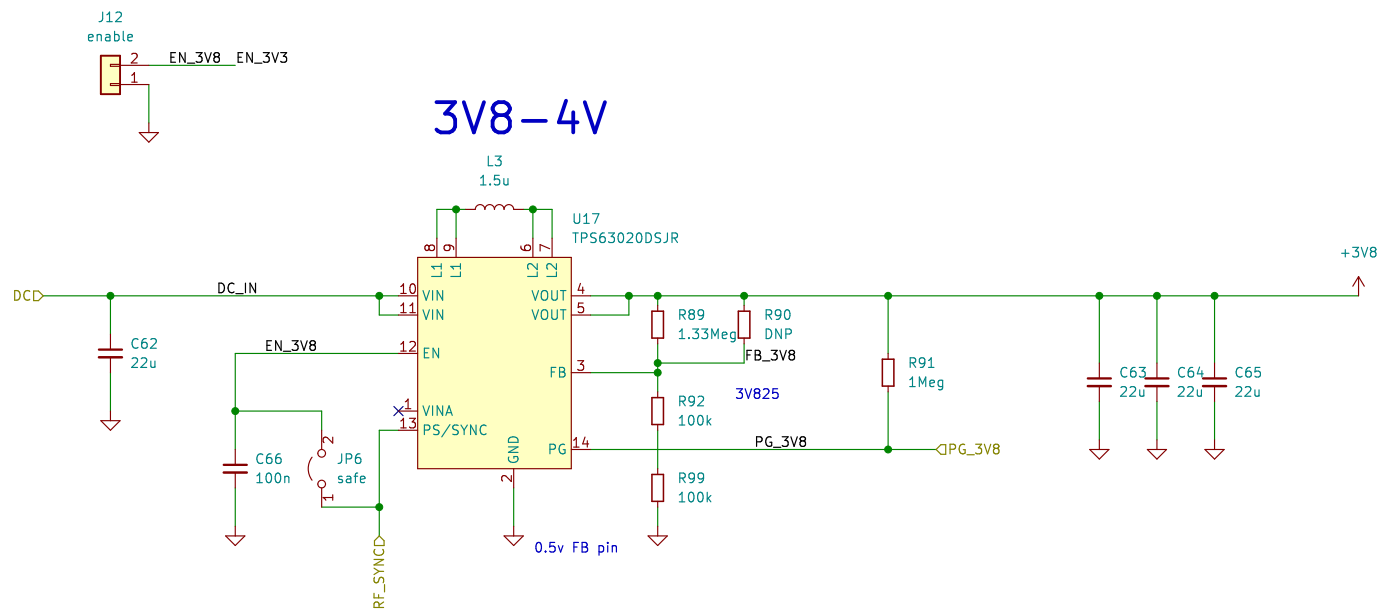
Size: A3 Date: 2022-11-23  
 KiCad E.D.A. kicad (6.0.9)

Rev: V0.1  
 Id: 6/8

3V-3V3



3V8-4V



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Verified by: Kecs Robert Alfred  
Designed by: Kecs Robert Alfred

Sheet: /Power Management +BMS/SMPsS/  
File: SMPsS.kicad\_sch

**Title: Bird Detection and Recognition System**

Size: A3 Date: 2022-11-23  
KiCad E.D.A. kicad (6.0.9)

Rev: V0.1  
Id: 7/8

