Pulse Oximeter

01. Table of Contents

02. +12V Input

03. +12V Telemetry

04. +3.3V Power Supply

05. +3.3V Telemetry

06. +1.8V Power Supply

07. +1.8V Telemetry

08. PIC32MZ Programming

09. PIC32MZ Bypass

10. PIC32MZ Clocking

11. PIC32MZ

12. USB UART Bridge

13. USB Telemetry

14. Platform ETC

15. POX Sensor

16. Display

17. Pushbuttons

Sheet: +12V Input
File: POS12_Input.sch

Sheet: +12V Telemetry
File: POS12_Telemetry.sch

Sheet: +3.3V Power Supply
File: POS3P3_Power_Supply.sch

Sheet: +3.3V Telemetry
File: POS3P3_Telemetry.sch

Sheet: +1.8V Power Supply
File: POS1P8_Power_Supply.sch

Sheet: +1.8V Telemetry
File: POS1P8_Telemetry.sch

Sheet: PIC32MZ Programming
File: PIC32MZ_Programming.sch

Sheet: PIC32MZ Bypass
File: PIC32MZ_Bypass.sch

Sheet: PIC32MZ Clocking
File: PIC32MZ_Clocking.sch

Sheet: PIC32MZ
File: PIC32MZ.sch

Sheet: USB UART Bridge
File: USB_UART_Bridge.sch

Sheet: USB Telemetry
File: USB_Telemetry.sch

Sheet: Platform ETC
File: Platform_ETC.sch

Sheet: POX Sensor
File: POX_Sensor.sch

Sheet: Display
File: Display.sch

Sheet: Pushbuttons
File: Pushbuttons.sch

18. PGOOD LEDs

19. Status LEDs

20. Misc Circuits

21. Mechanical

Sheet: PGOOD LEDs
File: PGOOD_LEDs.sch

Sheet: Status LEDs
File: Status_LEDs.sch

Sheet: Misc Circuits
File: Misc_Circuits.sch

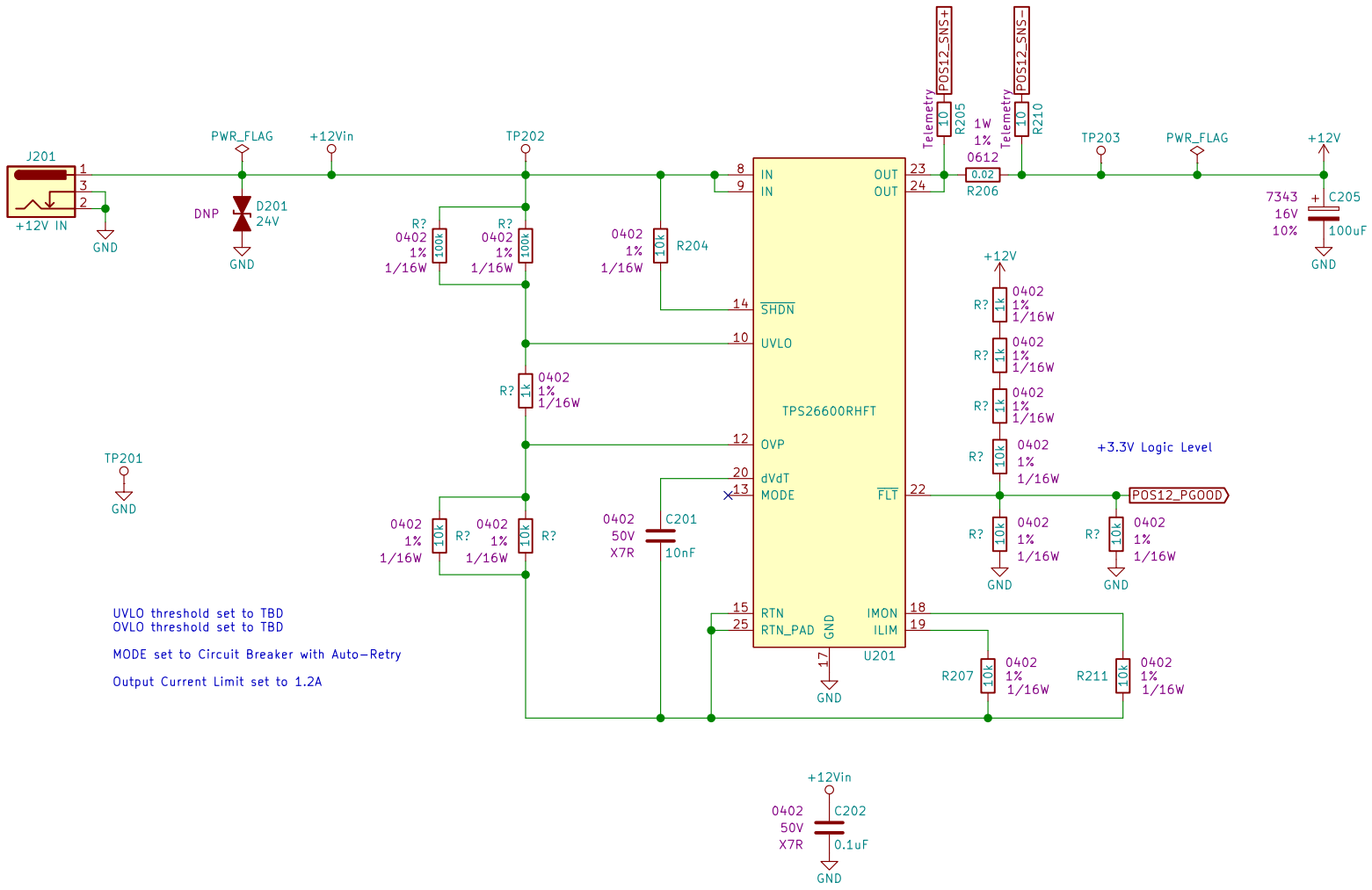
Sheet: Mechanical
File: Mechanical.sch

Drew Maatman

Sheet: /
File: Pulse_Oximeter.sch

Title: Pulse Oximeter

Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 1/21



Drew Maatman	
Sheet: /+12V Input/	
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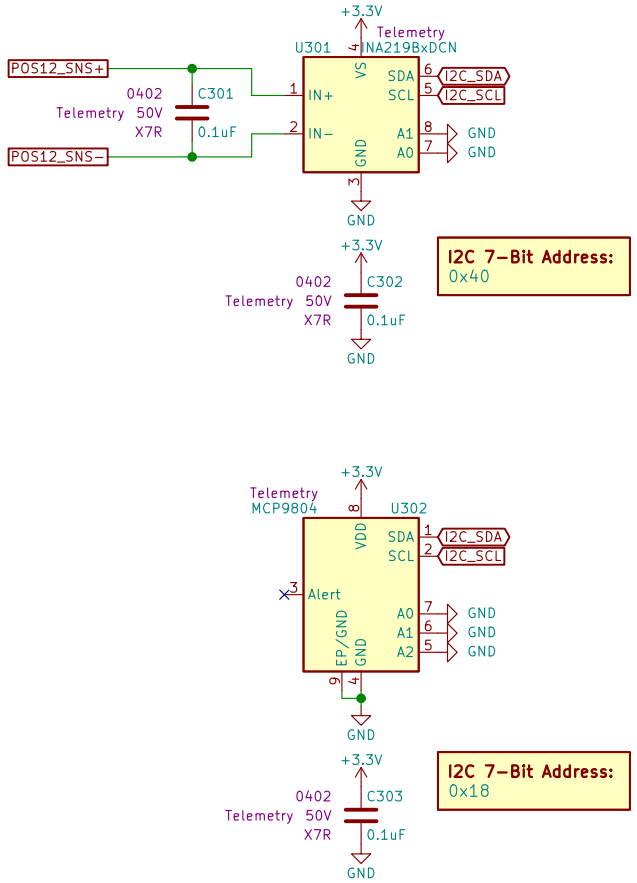
Size: A	Date: 2020-08-15
KiCad E.D.A. kicad (5.1.8)-1	Id: 2/21

Rev: A



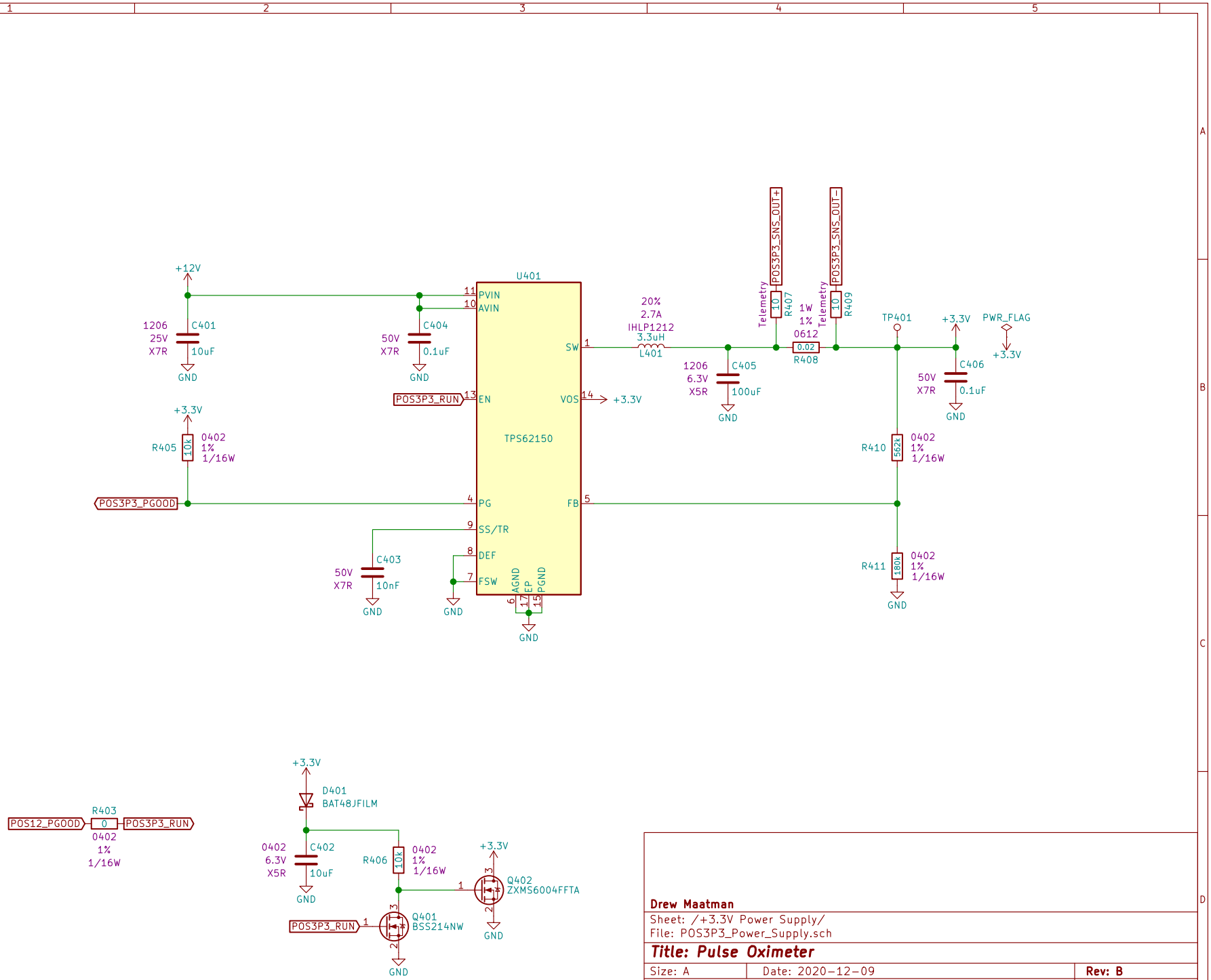
Drew Maatman

Sheet: /+12V Telemetry/

File: POS12_Telemetry.sch

Title: Pulse Oximeter

Size: A	Date: 2020−12−09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)−1		Id: 3/21



Drew Maatman	
Sheet: /+3.3V Power Supply/	
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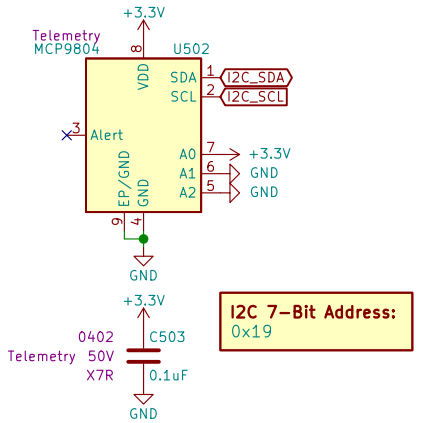
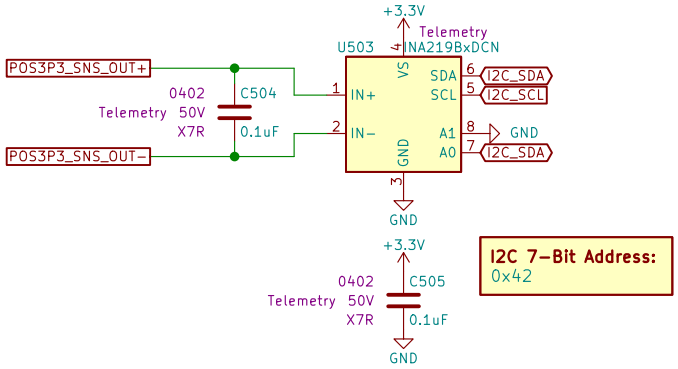
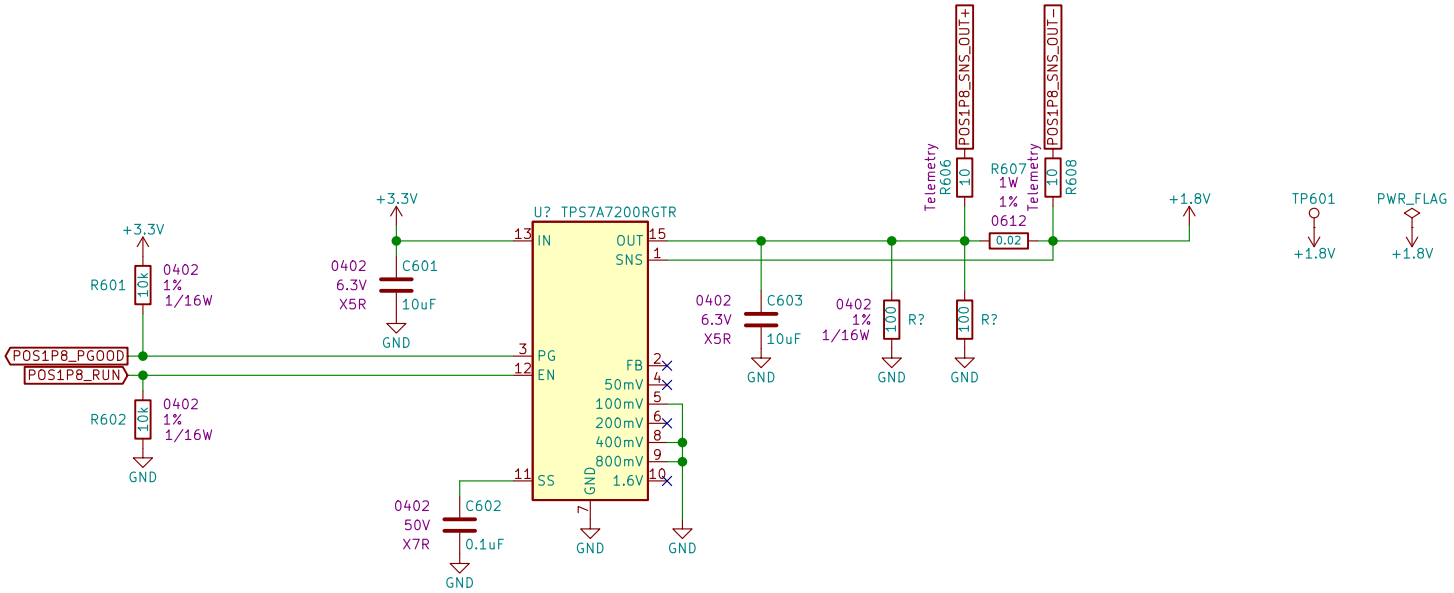
Size: A	Date: 2020-12-09
KiCad E.D.A. kicad (5.1.8)-1	Id: 4/21

Rev: B





Drew Maatman		
Sheet: /+3.3V Telemetry/		
File: POS3P3_Telemetry.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 5/21



Drew Maatman		
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File: POS1P8_Power_Supply.sch		
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Size: A	Date: 2020-12-09	**Rev: B**
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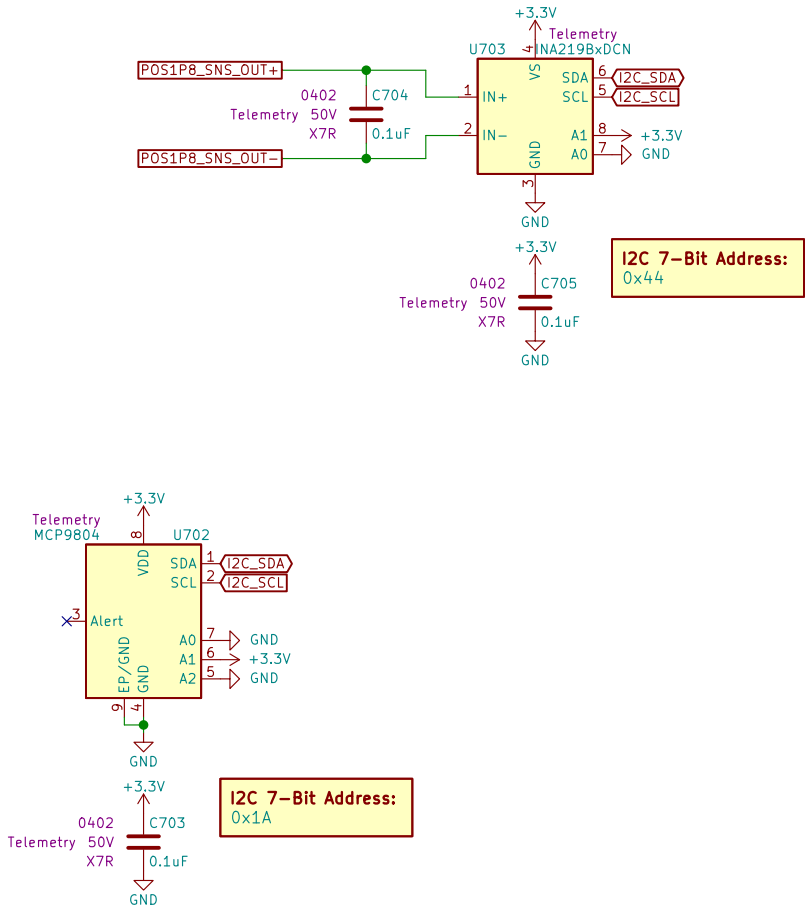

Drew Maatman		
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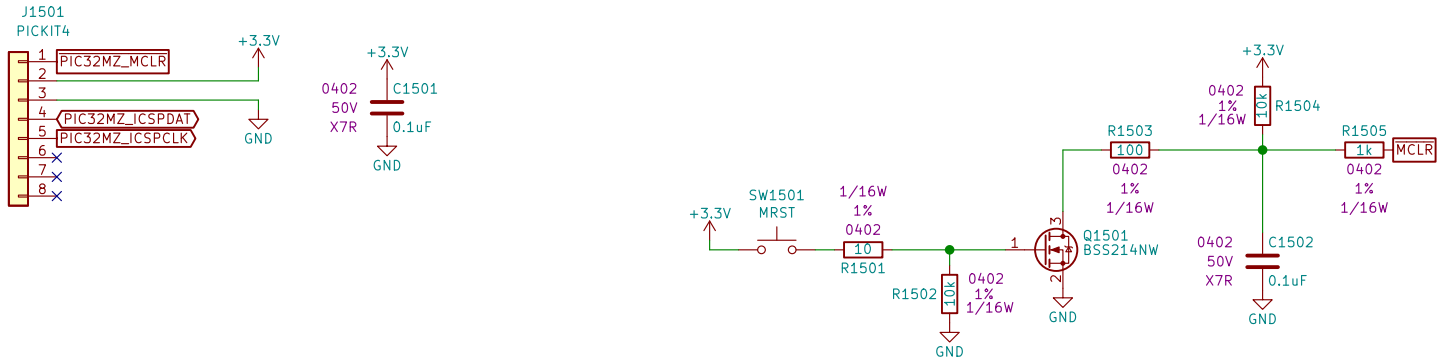
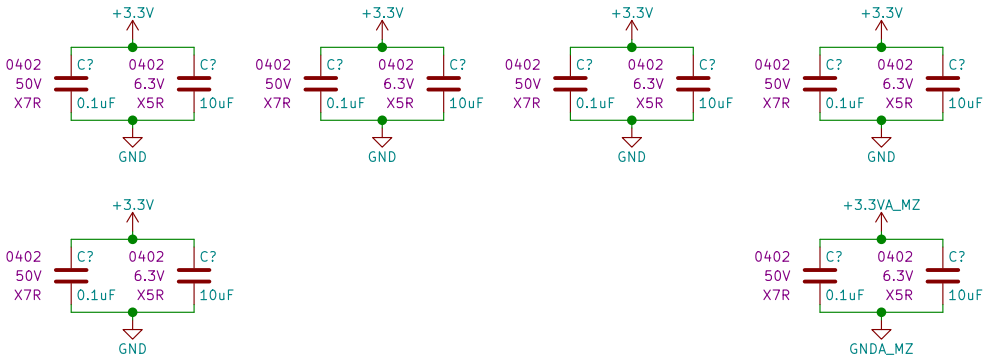
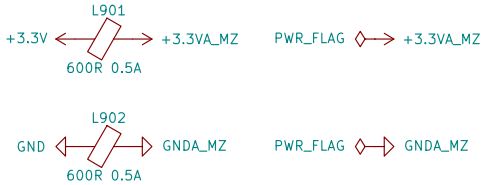
Title: Pulse Oximeter		
Size: A	Date: 2020−12−09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)−1		Id: 7/21



Drew Maatman		
Sheet: /PIC32MZ Programming/		
File: PIC32MZ_Programming.sch		
Title: VFD Clock		
Size: A	Date: 2020-10-12	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 8/21





Drew Maatman		
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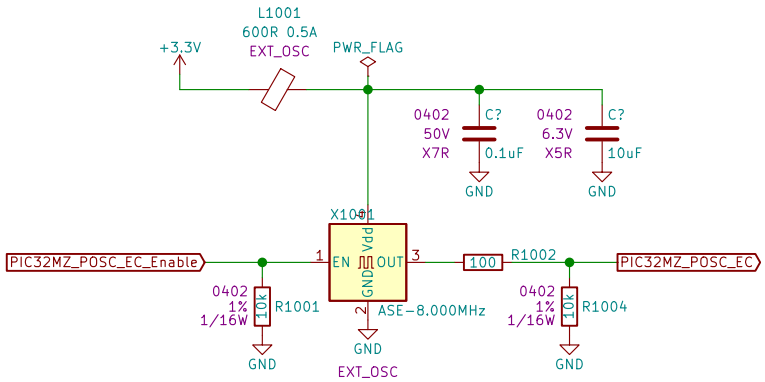
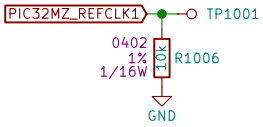
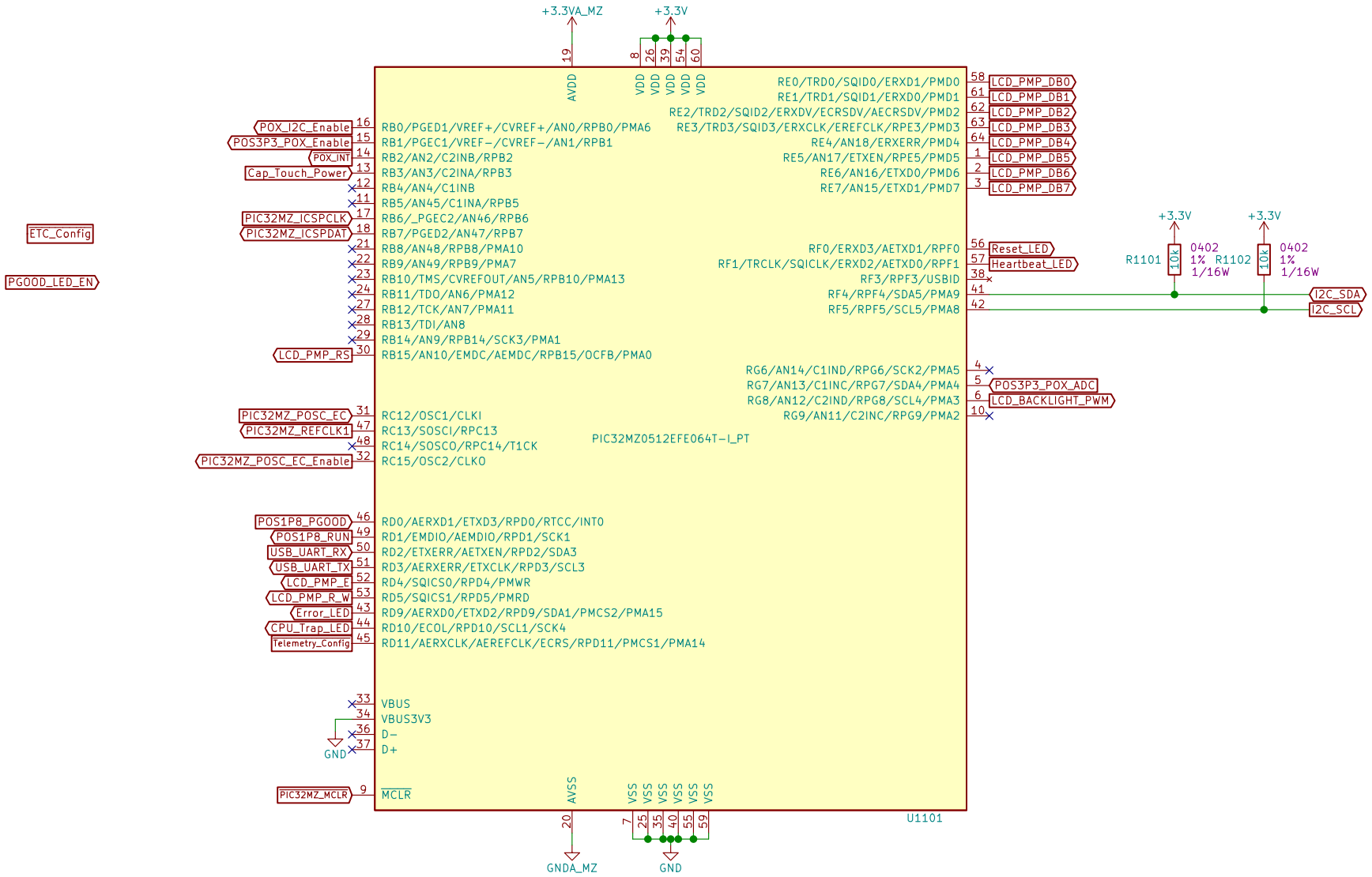
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 9/21

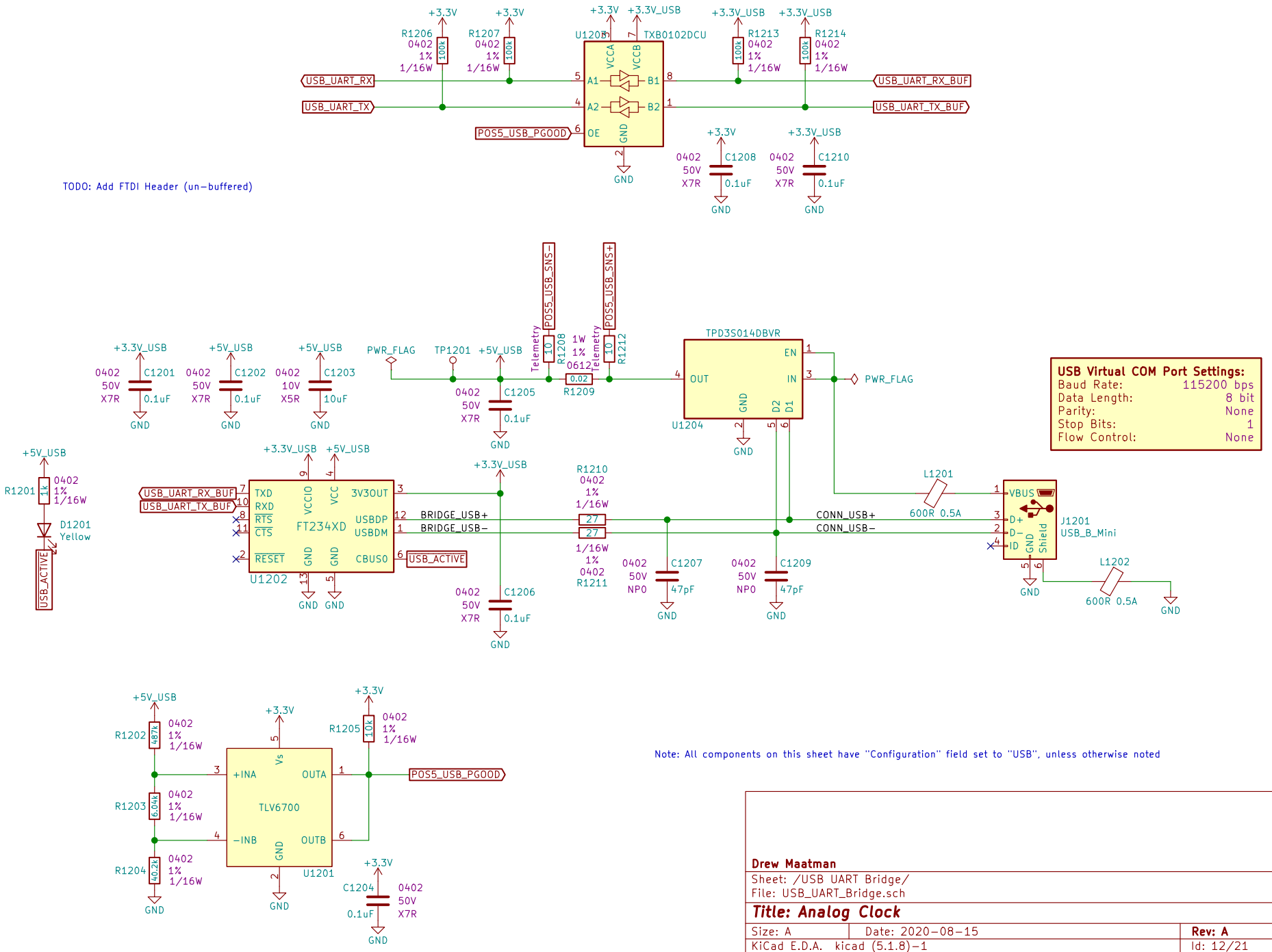


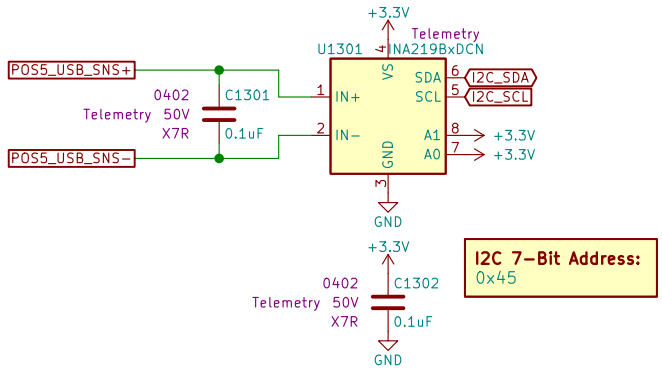


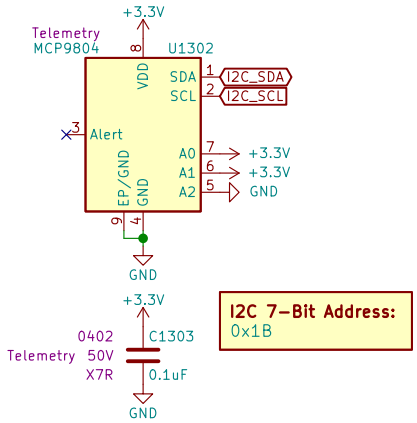
Drew Maatman		
Sheet: /PIC32MZ Clocking/		
File: PIC32MZ_Clocking.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 10/21



Drew Maatman		
Sheet: /PIC32MZ/		
File: PIC32MZ.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 11/21


TODO: Add FTDI Header (un-buffered)
USB_UART_RX
USB_UART_TX
POS5_USB_PGOOD
USB_UART_RX_BUF
USB_UART_TX_BUF
U1205
TXB0102DCU
R1206
R1207
R1213
R1214
C1208
C1210
PWR_FLAG
TP1201
POS5_USB_SNS-
POS5_USB_SNS+
R1208
R1209
R1212
C1205
TPD3S014DBVR
U1204
C1201
C1202
C1203
USB Virtual COM Port Settings:
Baud Rate: 115200 bps
Data Length: 8 bit
Parity: None
Stop Bits: 1
Flow Control: None
R1201
D1201
Yellow
USB_ACTIVE
U1202
FT234XD
R1210
R1211
C1206
C1207
C1209
L1201
600R 0.5A
J1201
USB_B_Mini
L1202
BRIDGE_USB+
BRIDGE_USB-
CONN_USB+
CONN_USB-
R1202
R1203
R1204
R1205
C1204
U1201
TLV6700
Note: All components on this sheet have "Configuration" field set to "USB", unless otherwise noted
Drew Maatman
Sheet: /USB UART Bridge/
File: USB_UART_Bridge.sch
Title: Analog Clock
Size: A
Date: 2020-08-15
Rev: A
KiCad E.D.A. kicad (5.1.8)-1
Id: 12/21





Drew Maatman		
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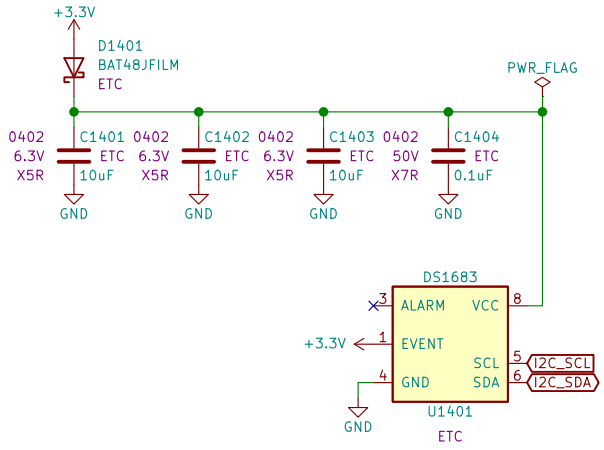
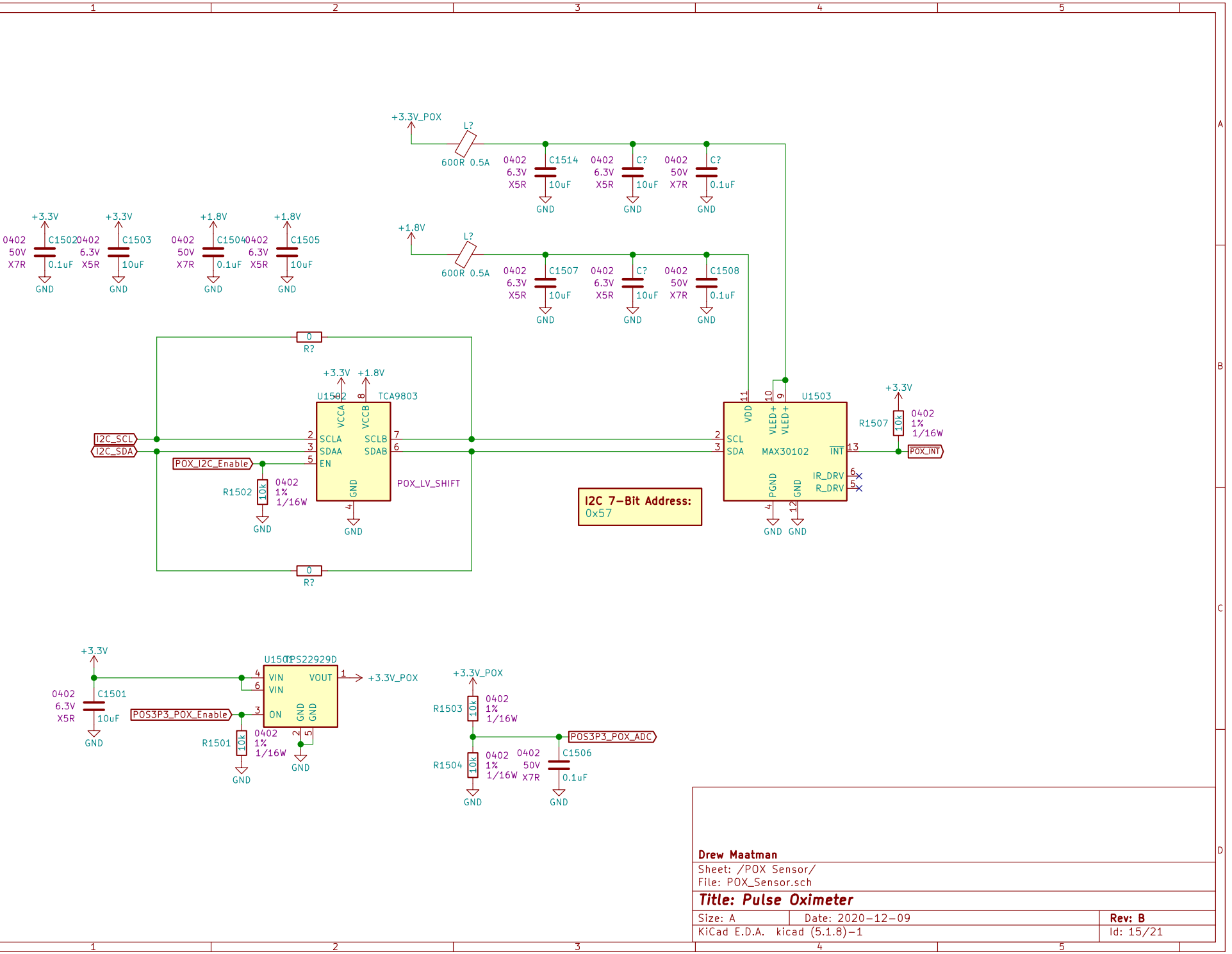
Title: Pulse Oximeter		
Size: A	Date: 2020−12−09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)−1		Id: 13/21

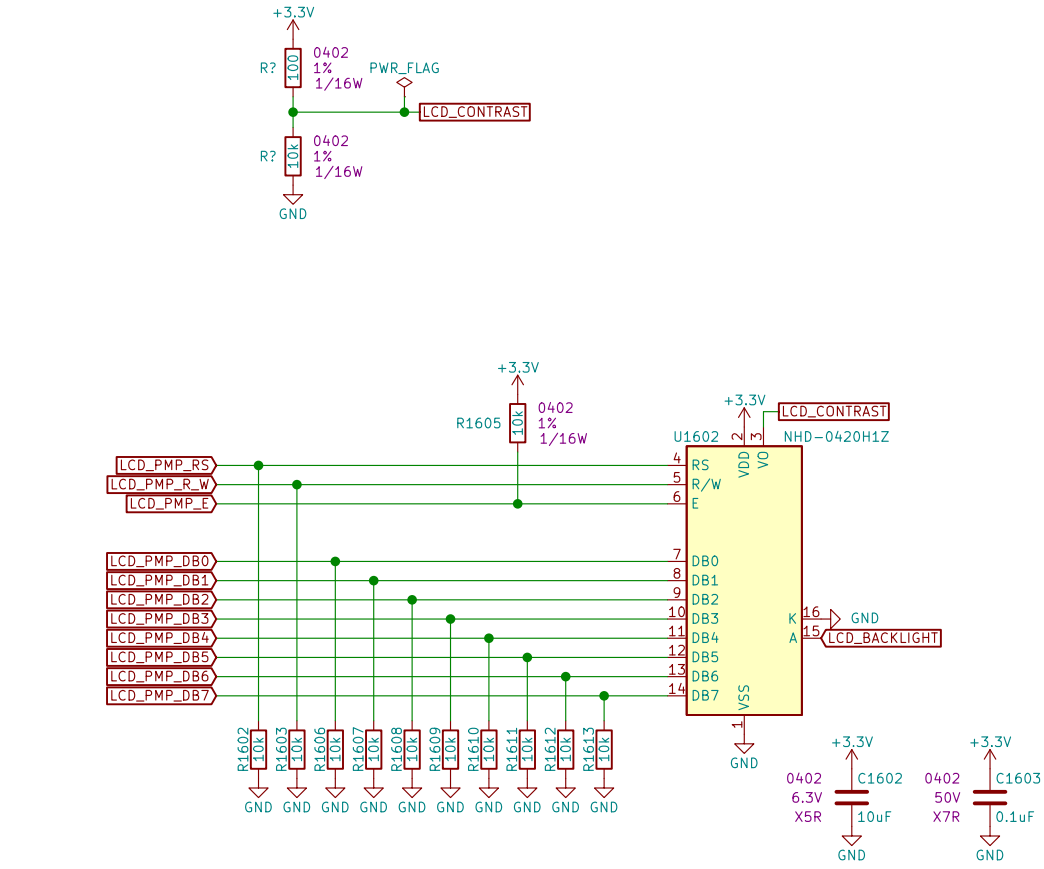


Drew Maatman		
Sheet: /Platform ETC/		
File: Platform_ETC.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 14/21

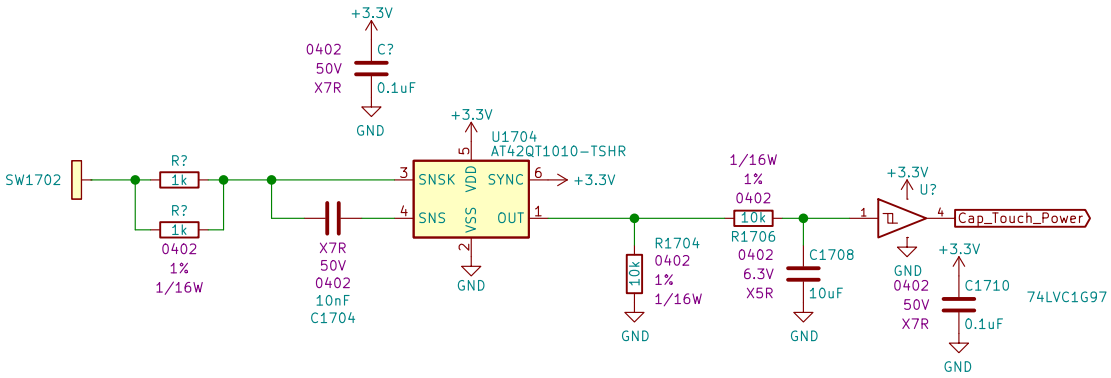


Drew Maatman	
Sheet: /POX Sensor/	
File: POX_Sensor.sch	
Title: Pulse Oximeter	
Size: A	Date: 2020-12-09
KiCad E.D.A. kicad (5.1.8)-1	Id: 15/21

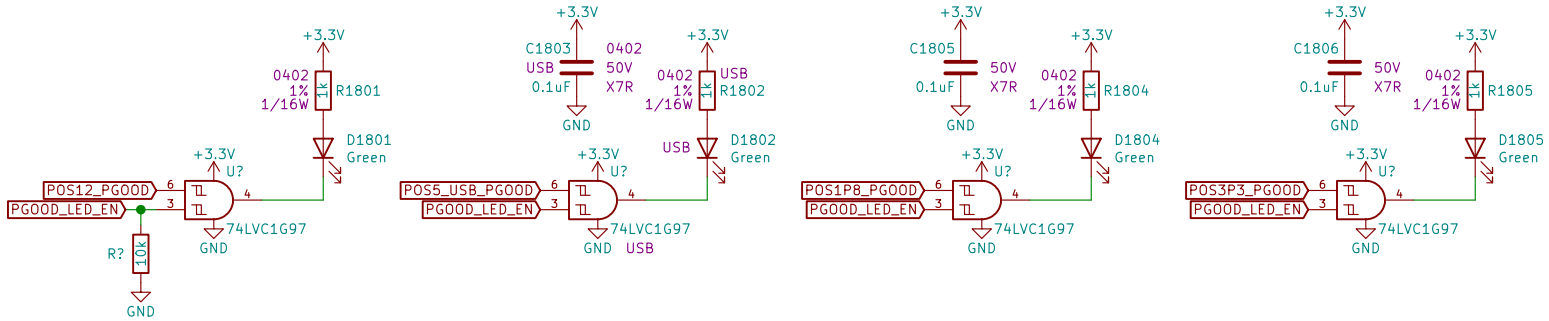
Rev: B



Drew Maatman		
Sheet: /Display/		
File: Display.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 16/21



Drew Maatman		
Sheet: /Pushbuttons/		
File: Pushbuttons.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
KiCad E.D.A. kicad (5.1.8)-1		Id: 17/21



Drew Maatman		
Sheet: /PGOOD LEDs/		
File: PGOOD_LEDs.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
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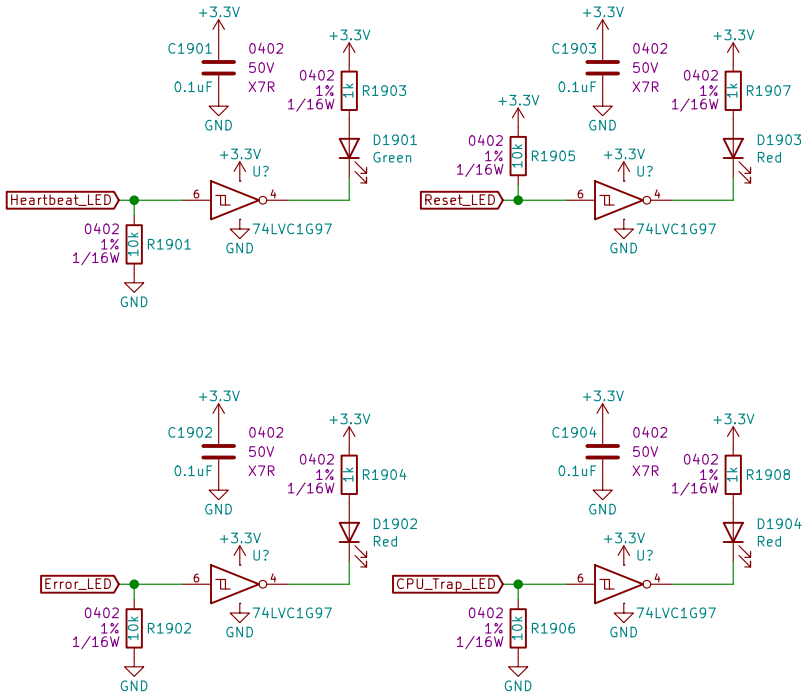

Drew Maatman		
Sheet: /Status LEDs/		
File: Status_LEDs.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
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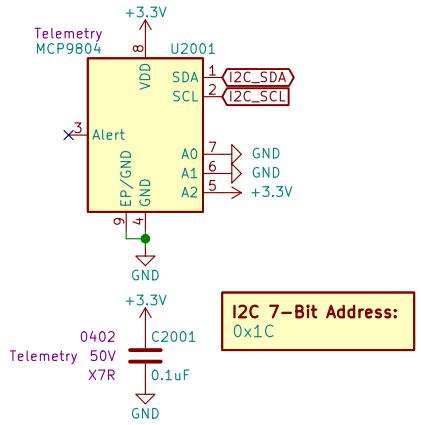

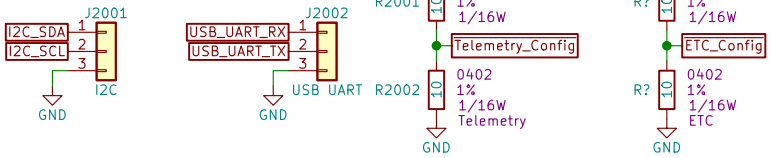

Drew Maatman

Sheet: /Misc Circuits/
File: Misc_Circuits.sch

Title: Pulse Oximeter

Size: A	Date: 2020-12-09	**Rev: B**
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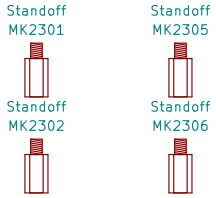

Drew Maatman		
Sheet: /Mechanical/ File: Mechanical.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-12-09	**Rev: B**
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