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: Time of Flight

File: Time_of_Flight.sch

Sheet: POX Sensor

File: POX_Sensor.sch

Sheet: Display

File: Display.sch

Sheet: Pushbuttons

File: Pushbuttons.sch

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

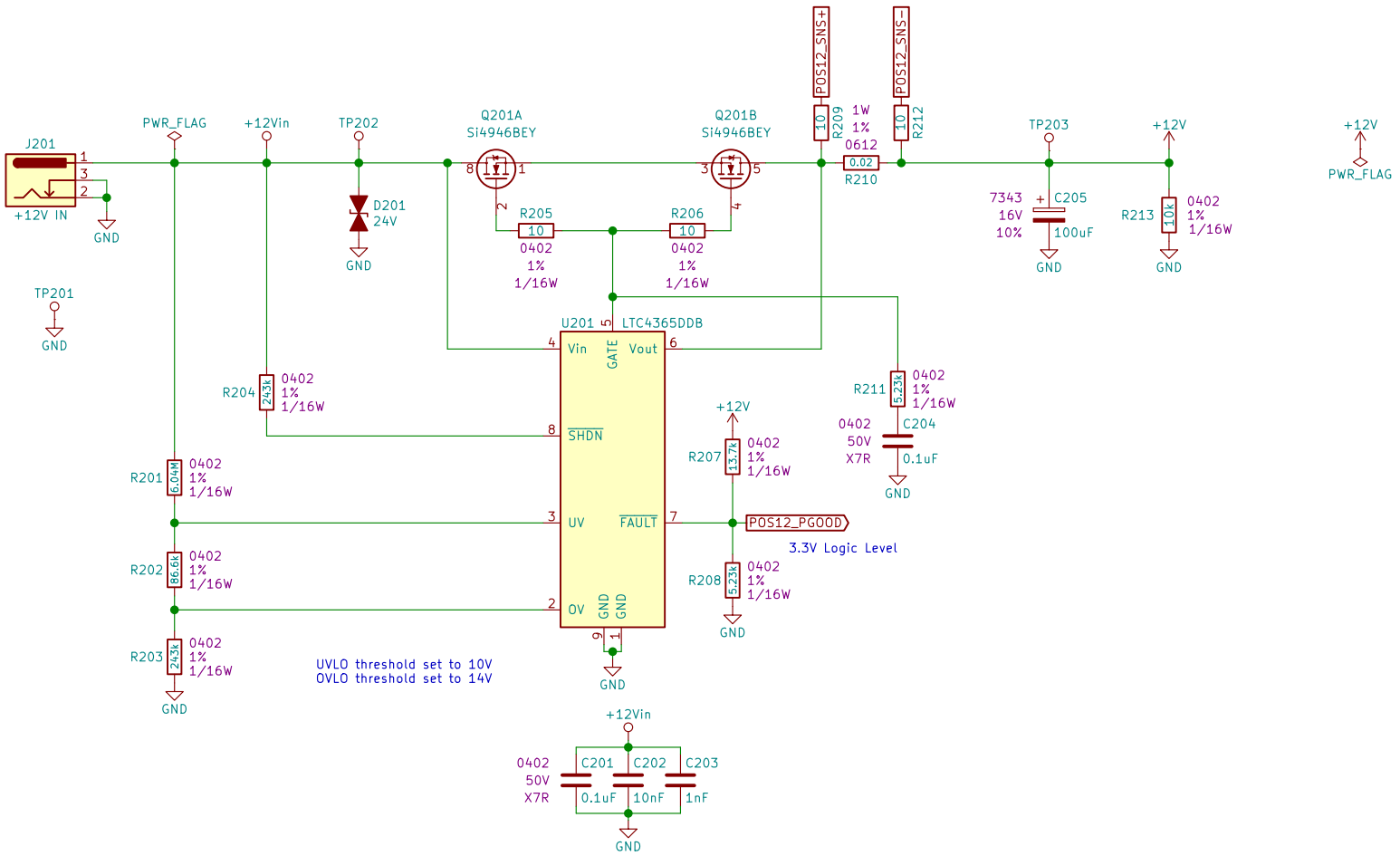
Drew Maatman

Sheet: /

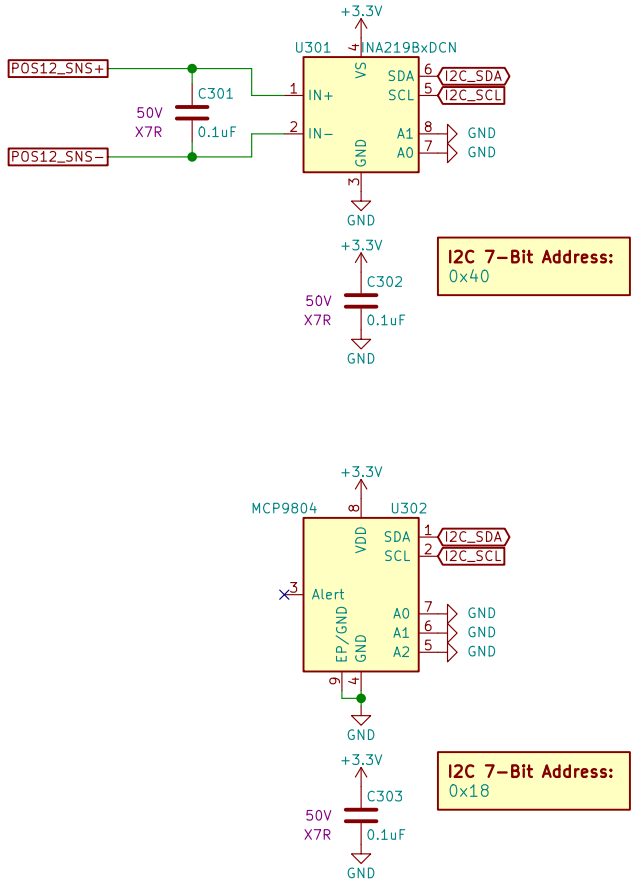
File: Pulse_Oximeter.sch

Title: Pulse Oximeter

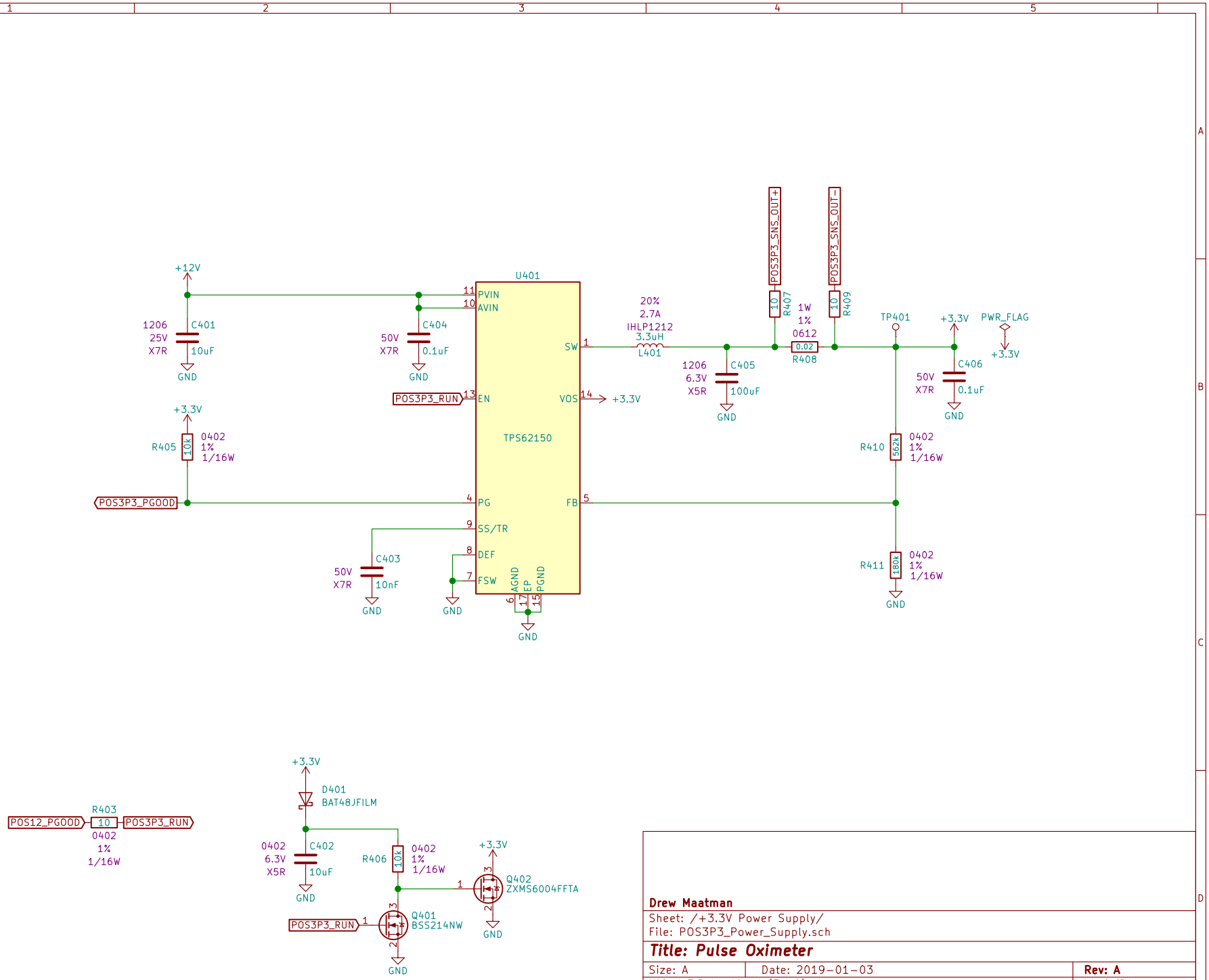
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 1/21



Drew Maatman		
Sheet: /+12V Input/		
File: POS12_Input.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 2/21

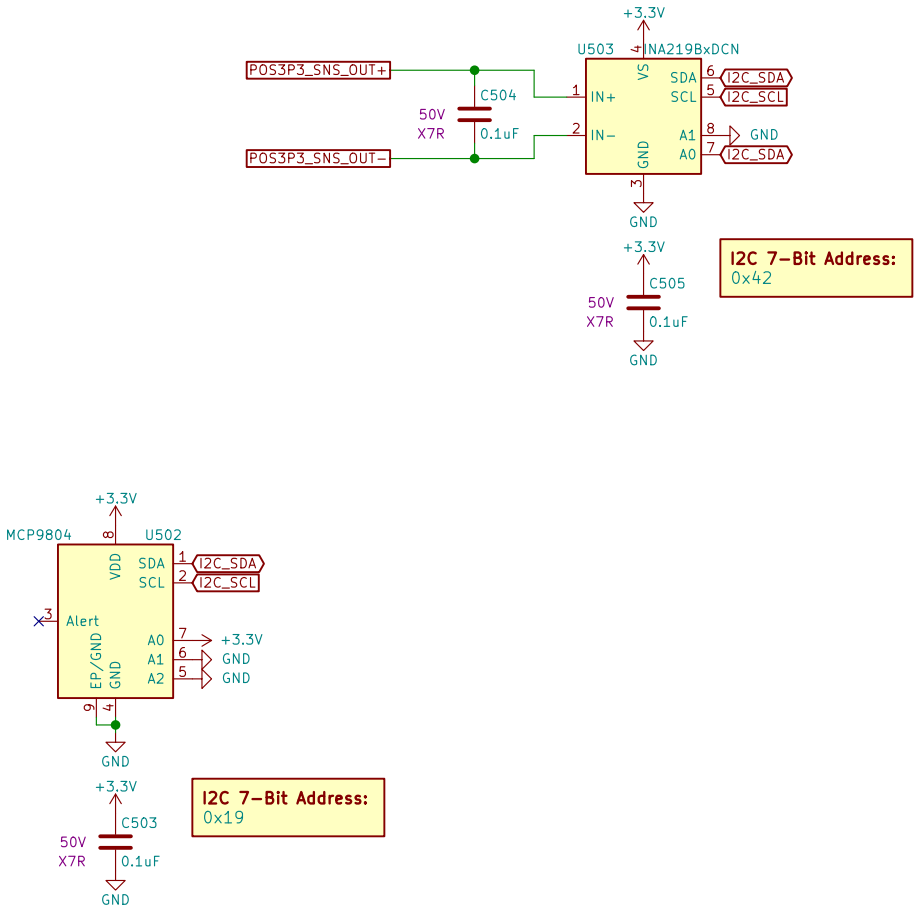


Drew Maatman		
Sheet: /+12V Telemetry/		
File: POS12_Telemetry.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019−01−03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)−1		Id: 3/21

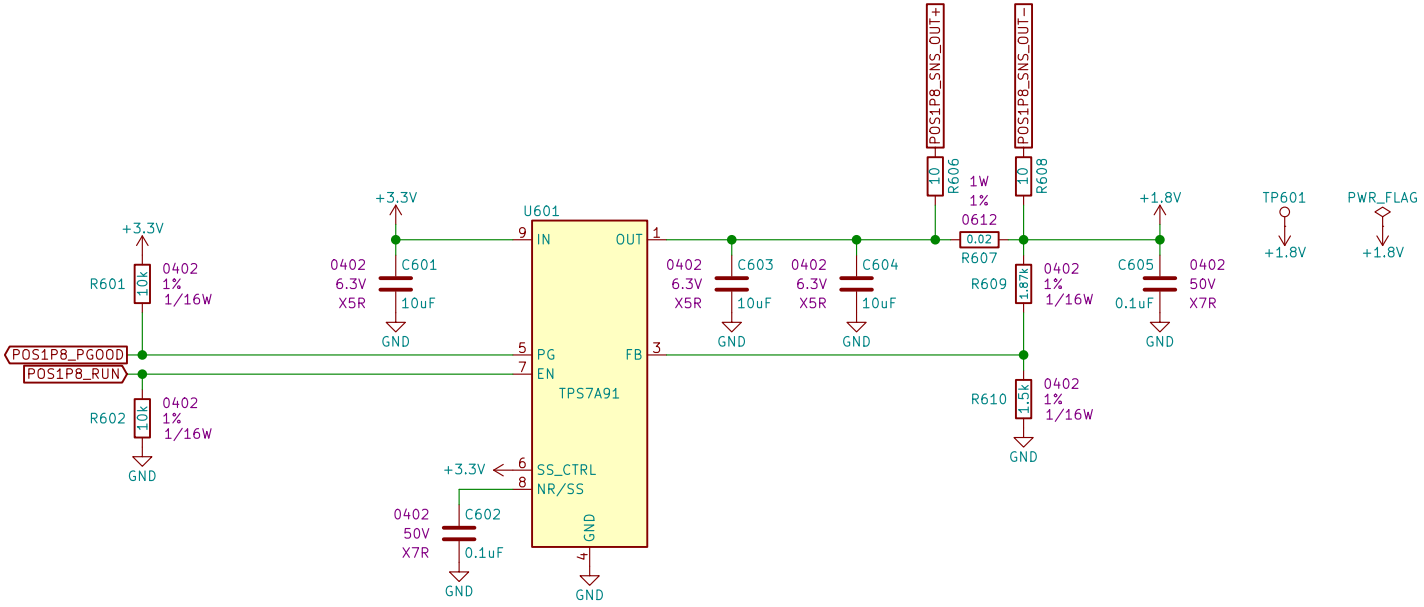


Drew Maatman	
Sheet: /+3.3V Power Supply/	
File: POS3P3_Power_Supply.sch	
Title: Pulse Oximeter	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.1.4)-1	Id: 4/21

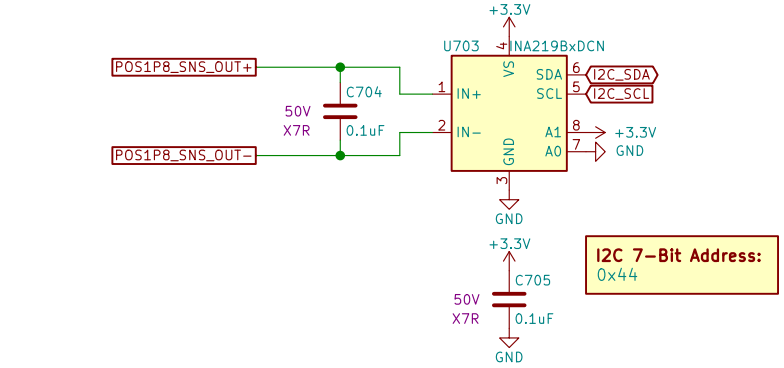
Rev: A

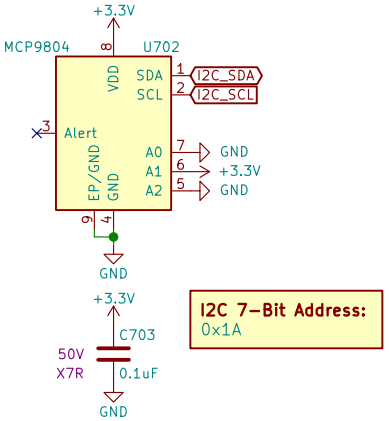


Drew Maatman		
Sheet: /+3.3V Telemetry/		
File: POS3P3_Telemetry.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 5/21

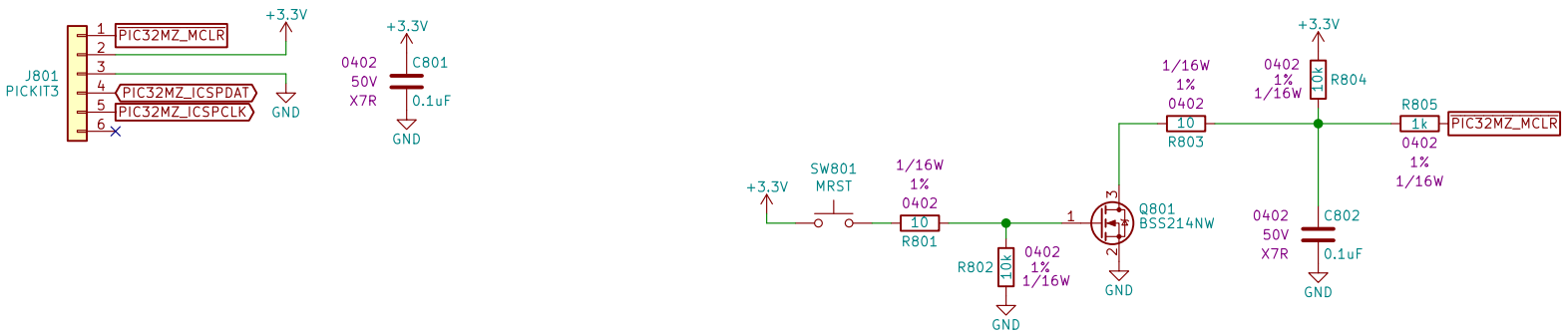


Drew Maatman		
Sheet: /+1.8V Power Supply/		
File: POS1P8_Power_Supply.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 6/21

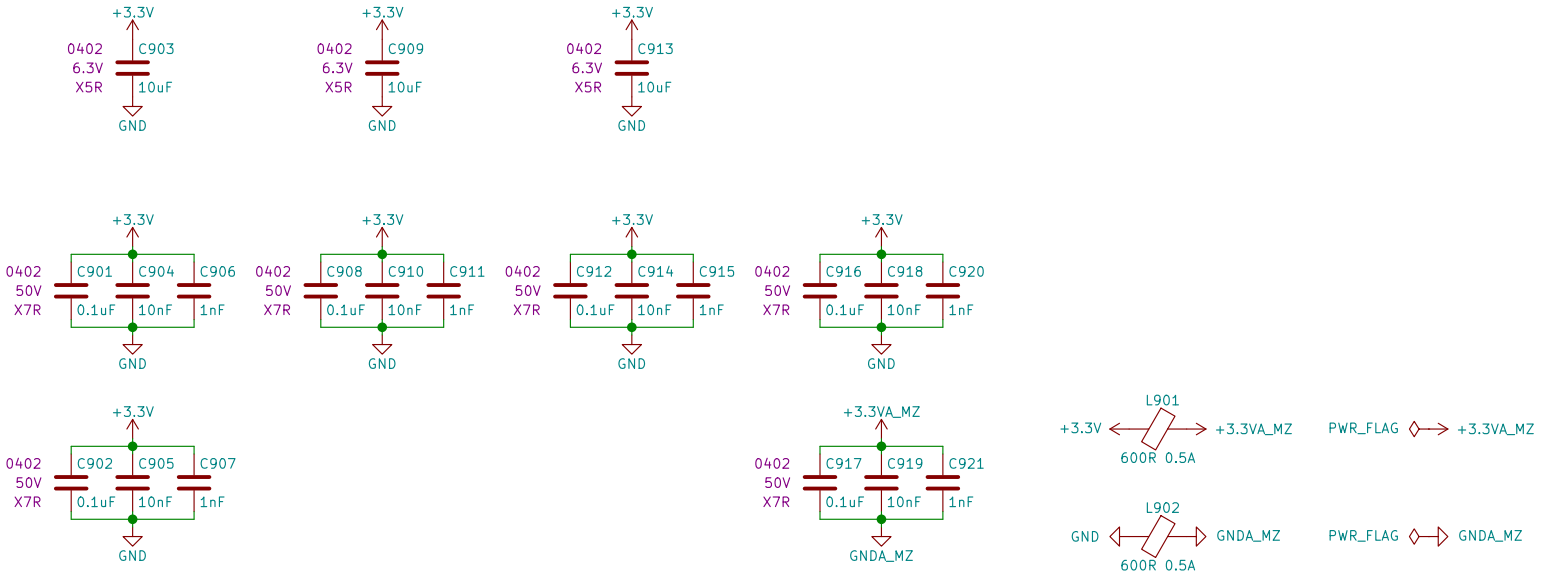




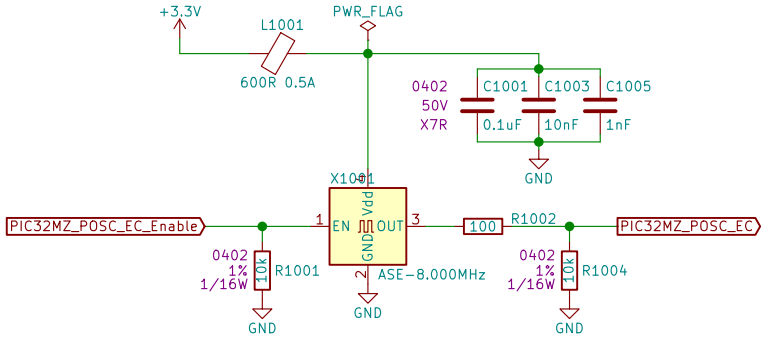
Drew Maatman		
Sheet: /+1.8V Telemetry/		
File: POS1P8_Telemetry.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 7/21

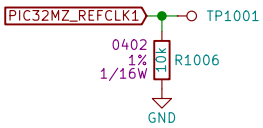


Drew Maatman			
Sheet: /PIC32MZ Programming/			
File: PIC32MZ_Programming.sch			
Title: Pulse Oximeter			
Size: A	Date: 2019-01-03		**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1			Id: 8/21

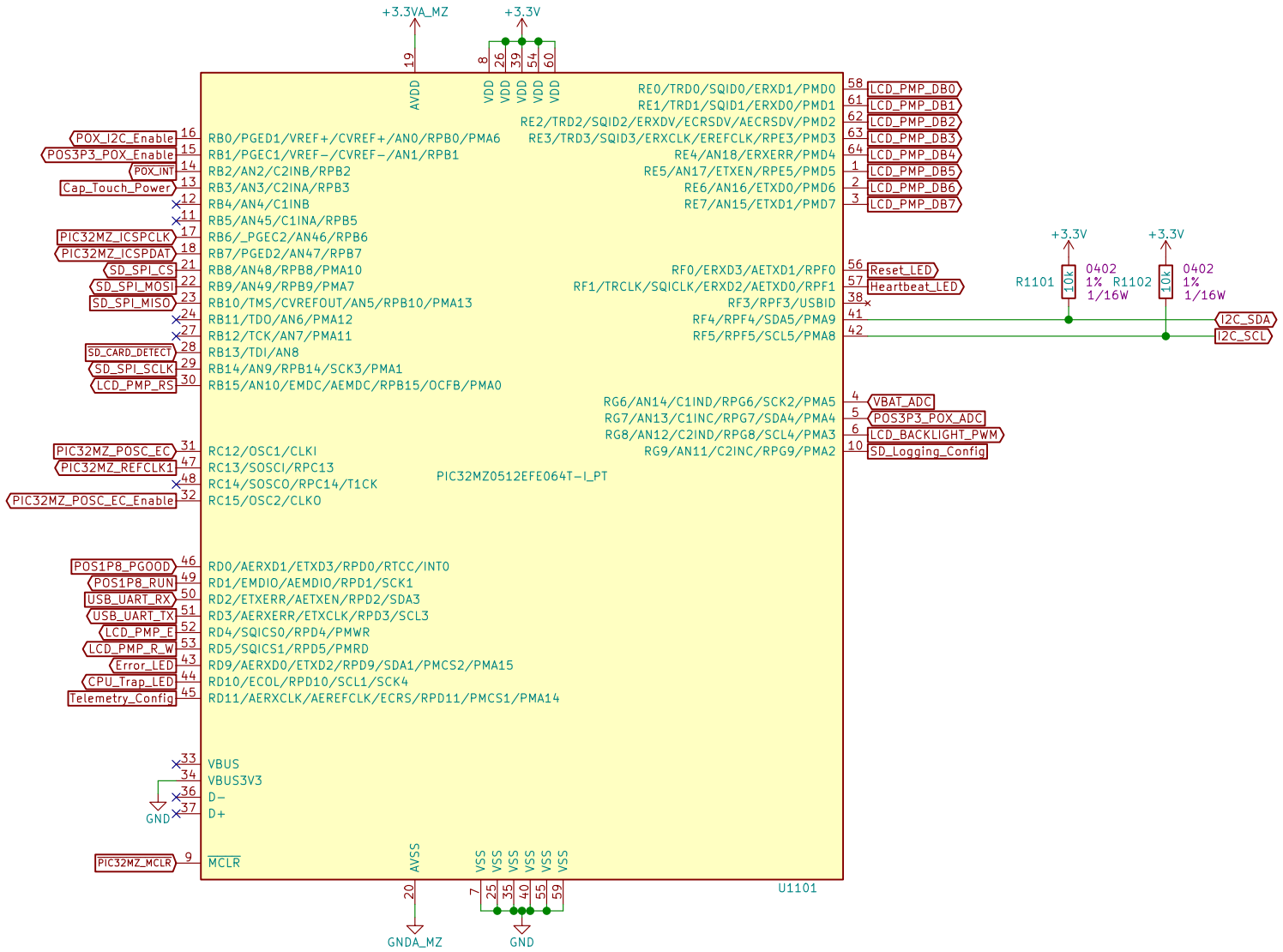


Drew Maatman		
Sheet: /PIC32MZ Bypass/		
File: PIC32MZ_Bypass.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 9/21



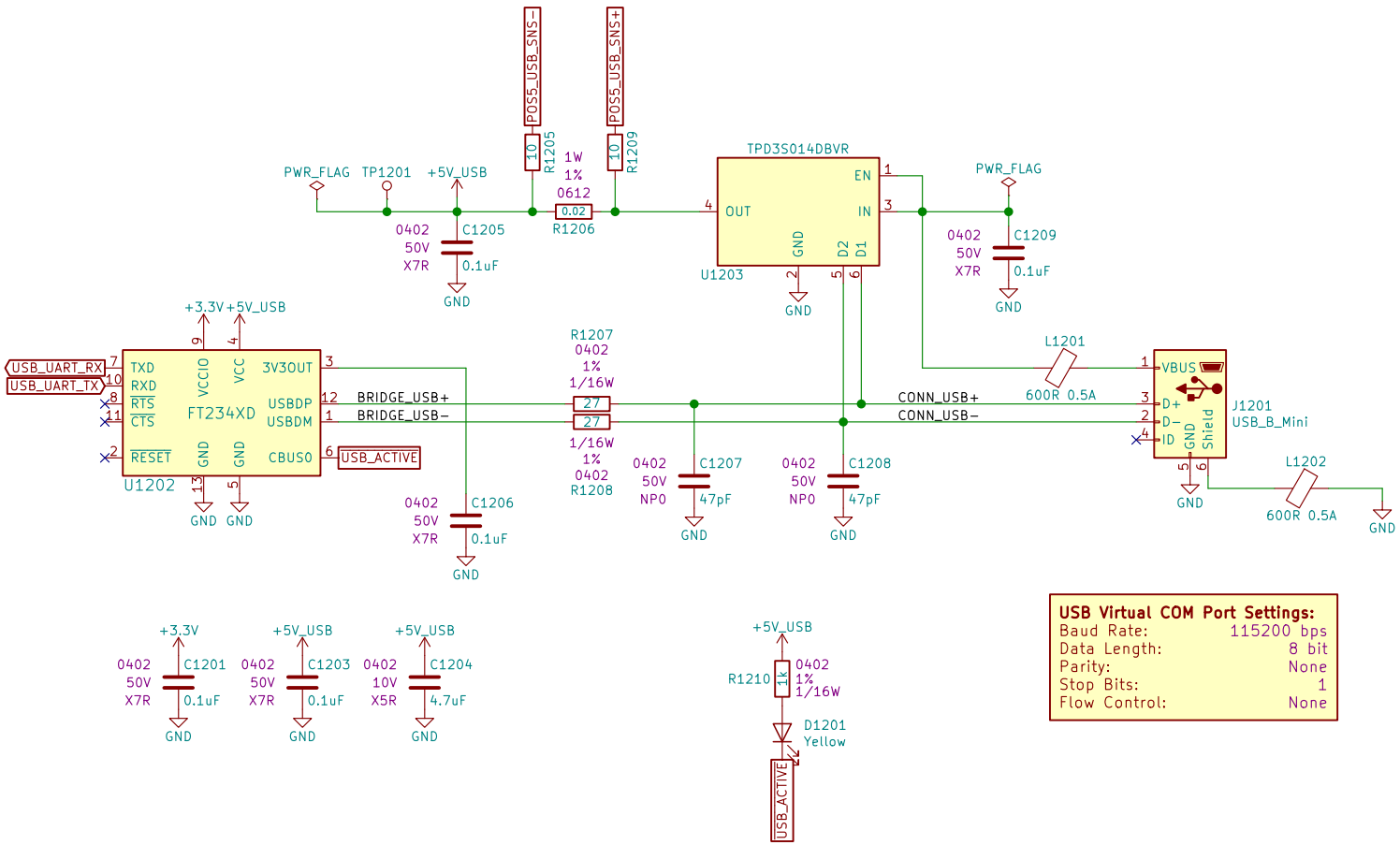


Drew Maatman		
Sheet: /PIC32MZ Clocking/		
File: PIC32MZ_Clocking.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 10/21



Drew Maatman	
Sheet: /PIC32MZ/	
File: PIC32MZ.sch	
Title: Pulse Oximeter	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.1.4)-1	Id: 11/21

Rev: A



USB Virtual COM Port Settings:

Baud Rate:	115200 bps
Data Length:	8 bit
Parity:	None
Stop Bits:	1
Flow Control:	None

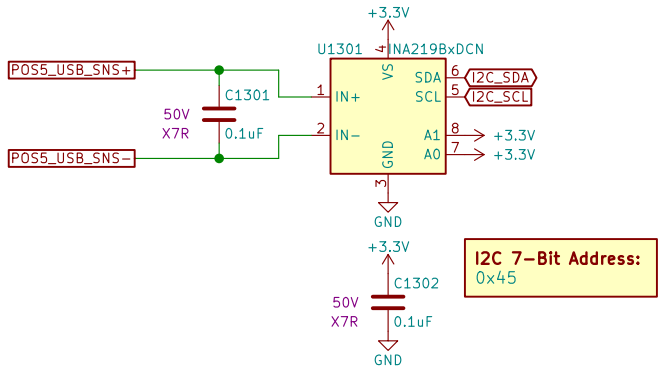
Drew Maatman

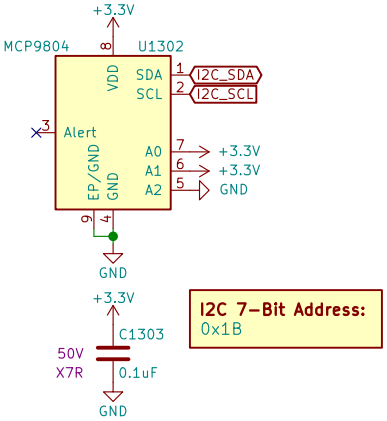
Sheet: /USB UART Bridge/

File: USB_UART_Bridge.sch

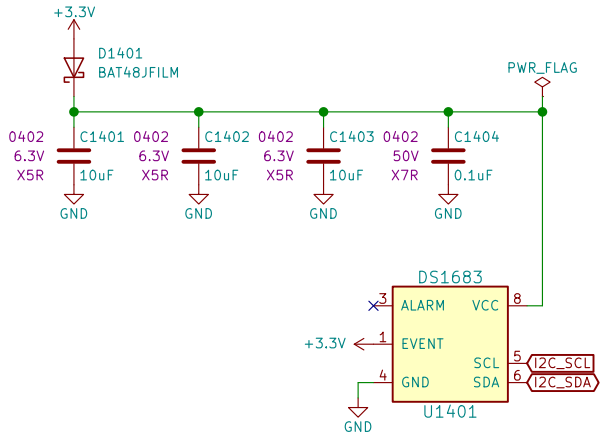
Title: Pulse Oximeter

Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 12/21





Drew Maatman		
Sheet: /USB Telemetry/		
File: USB_Telemetry.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019−01−03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)−1		Id: 13/21



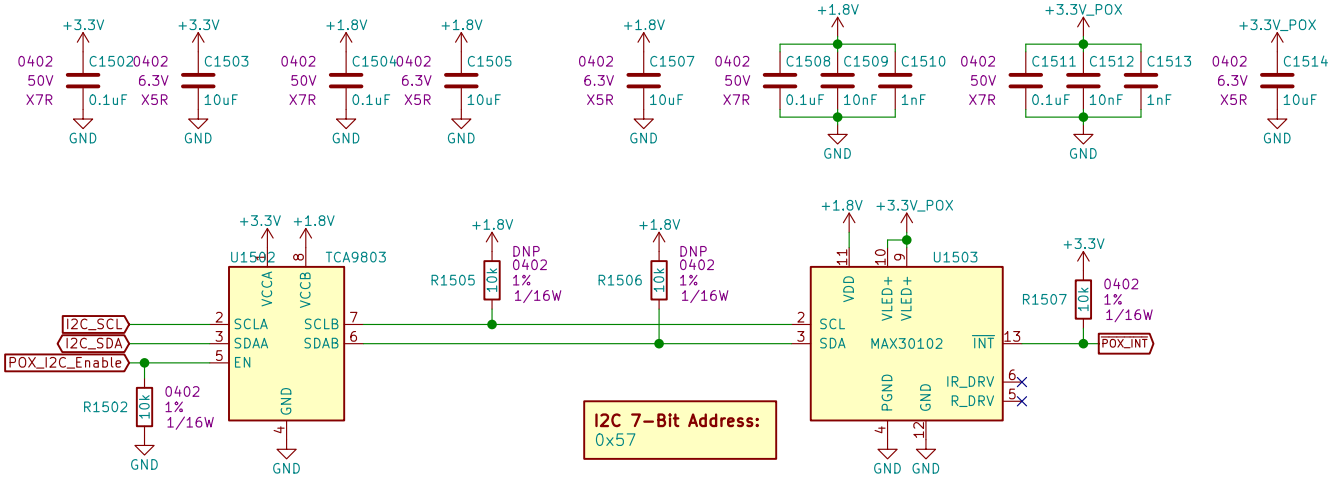
I2C 7-Bit Address:
0x6B

Drew Maatman

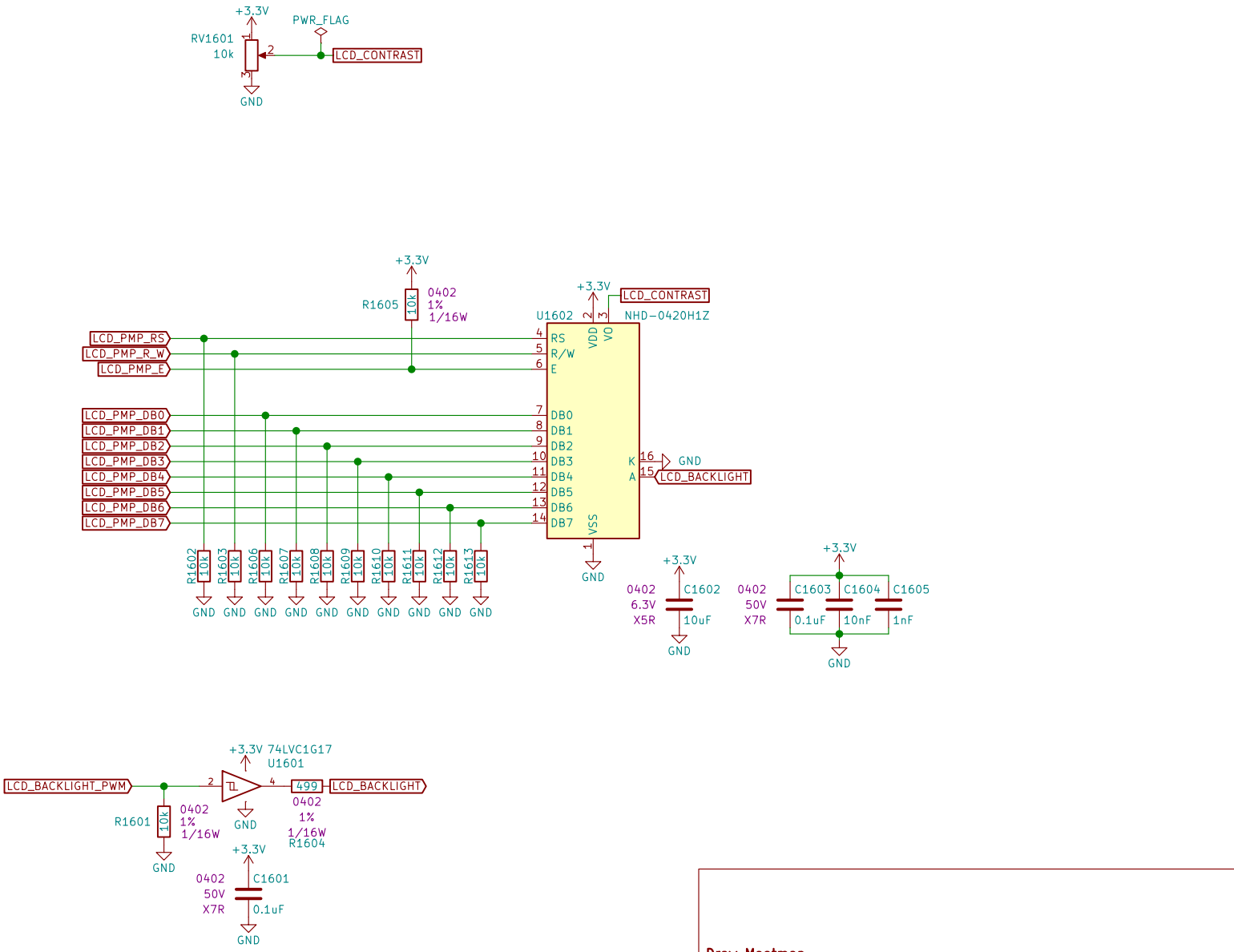
Sheet: /Time of Flight/
File: Time_of_Flight.sch

Title: Pulse Oximeter

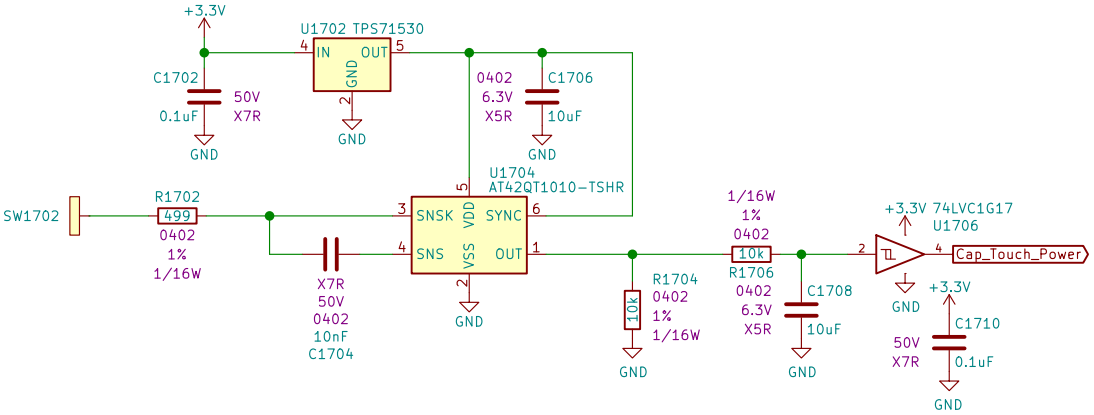
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 14/21



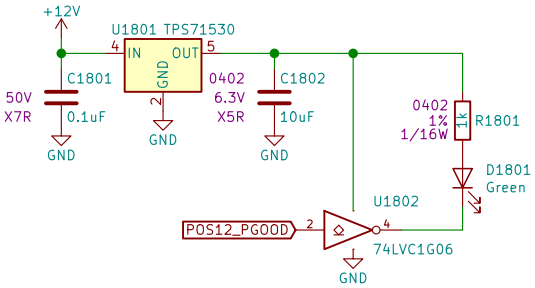
Drew Maatman		
Sheet: /POX Sensor/		
File: POX_Sensor.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 15/21

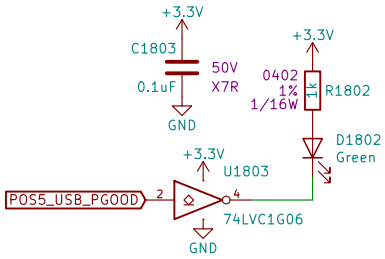


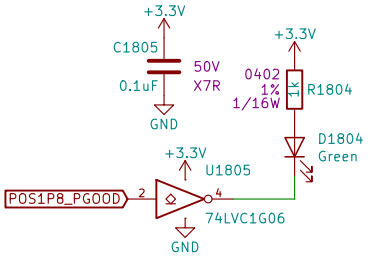
Drew Maatman		
Sheet: /Display/		
File: Display.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 16/21

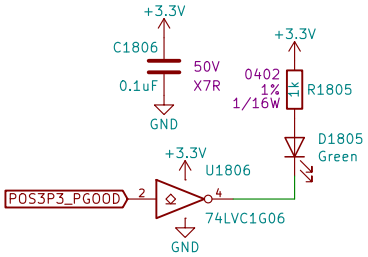


Drew Maatman		
Sheet: /Pushbuttons/		
File: Pushbuttons.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 17/21

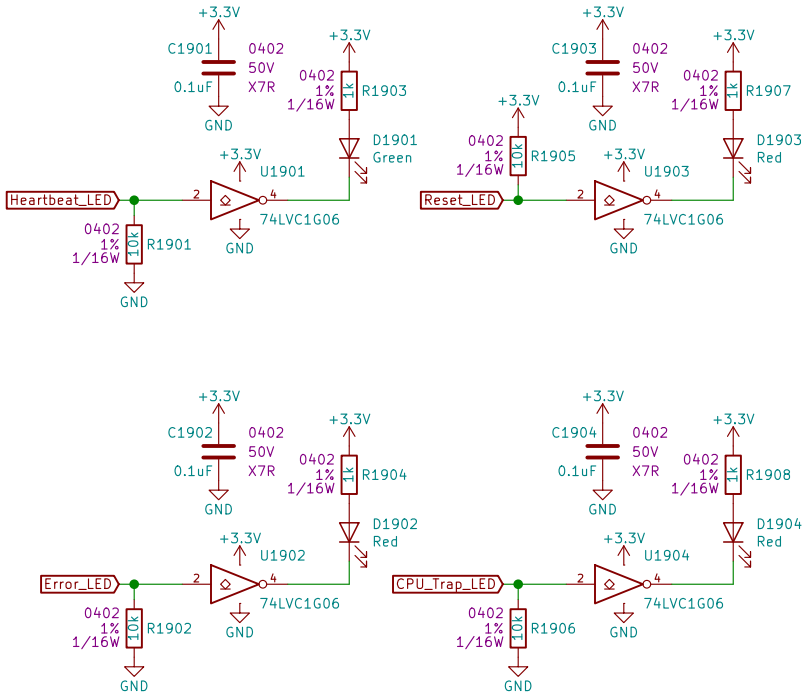




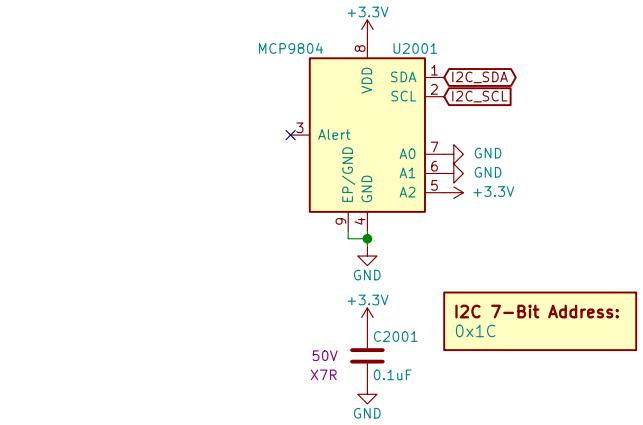


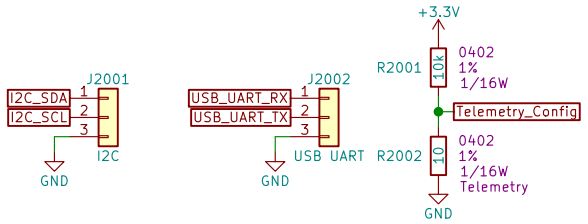


Drew Maatman		
Sheet: /PGOOD LEDs/		
File: PGOOD_LEDs.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 18/21

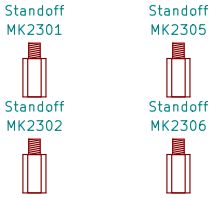


Drew Maatman		
Sheet: /Status LEDs/		
File: Status_LEDs.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 19/21





Drew Maatman		
Sheet: /Misc Circuits/		
File: Misc_Circuits.sch		
Title: Pulse Oximeter		
Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 20/21



Drew Maatman

Sheet: /Mechanical/
File: Mechanical.sch

Title: Pulse Oximeter

Size: A	Date: 2019-01-03	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 21/21