

A

A

B

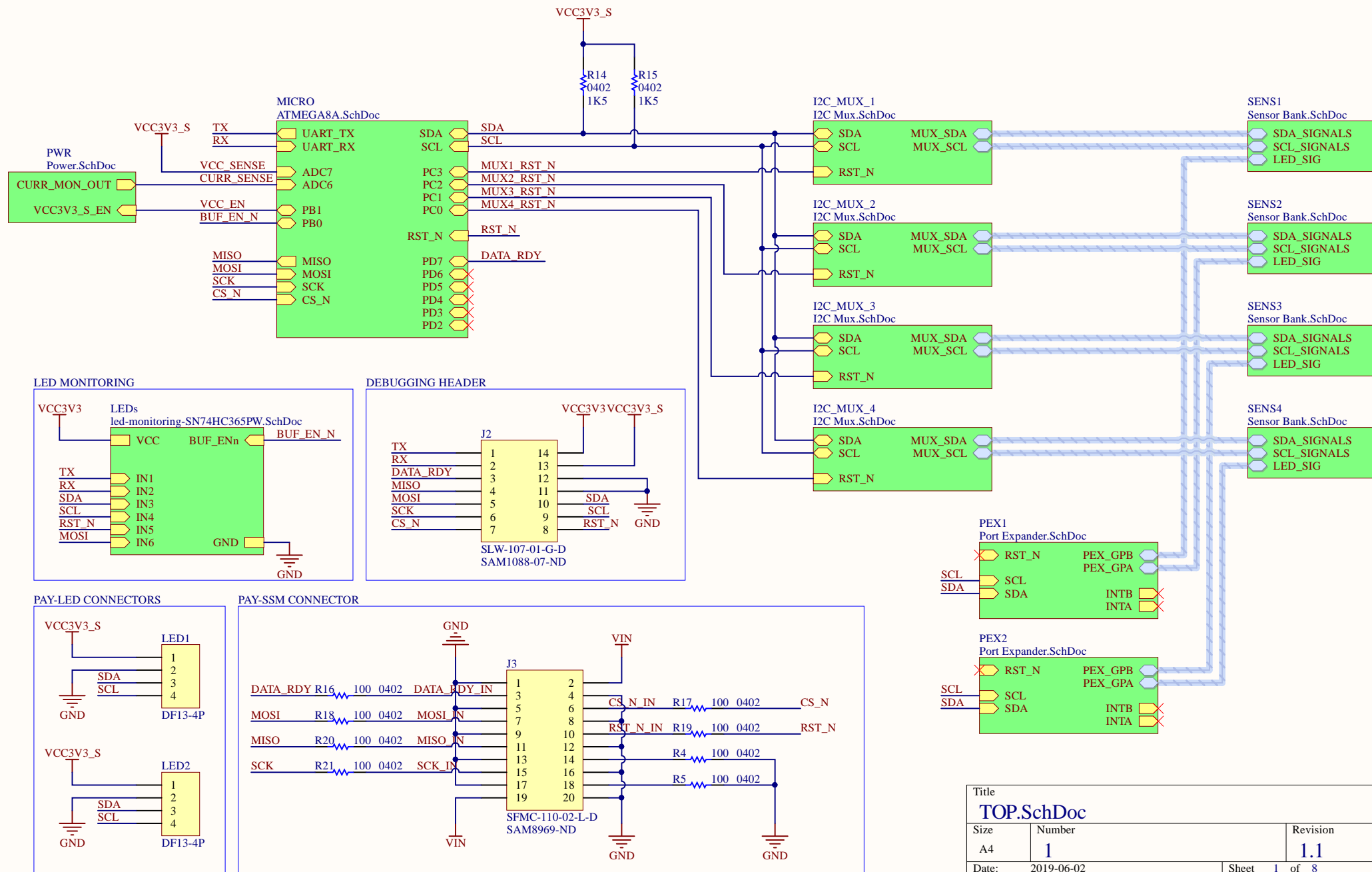
B

C

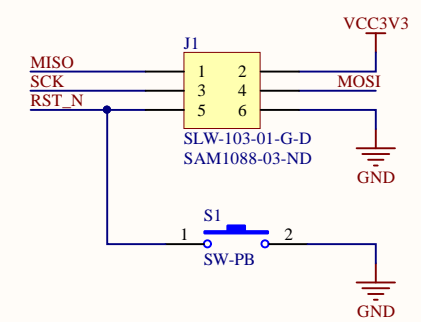
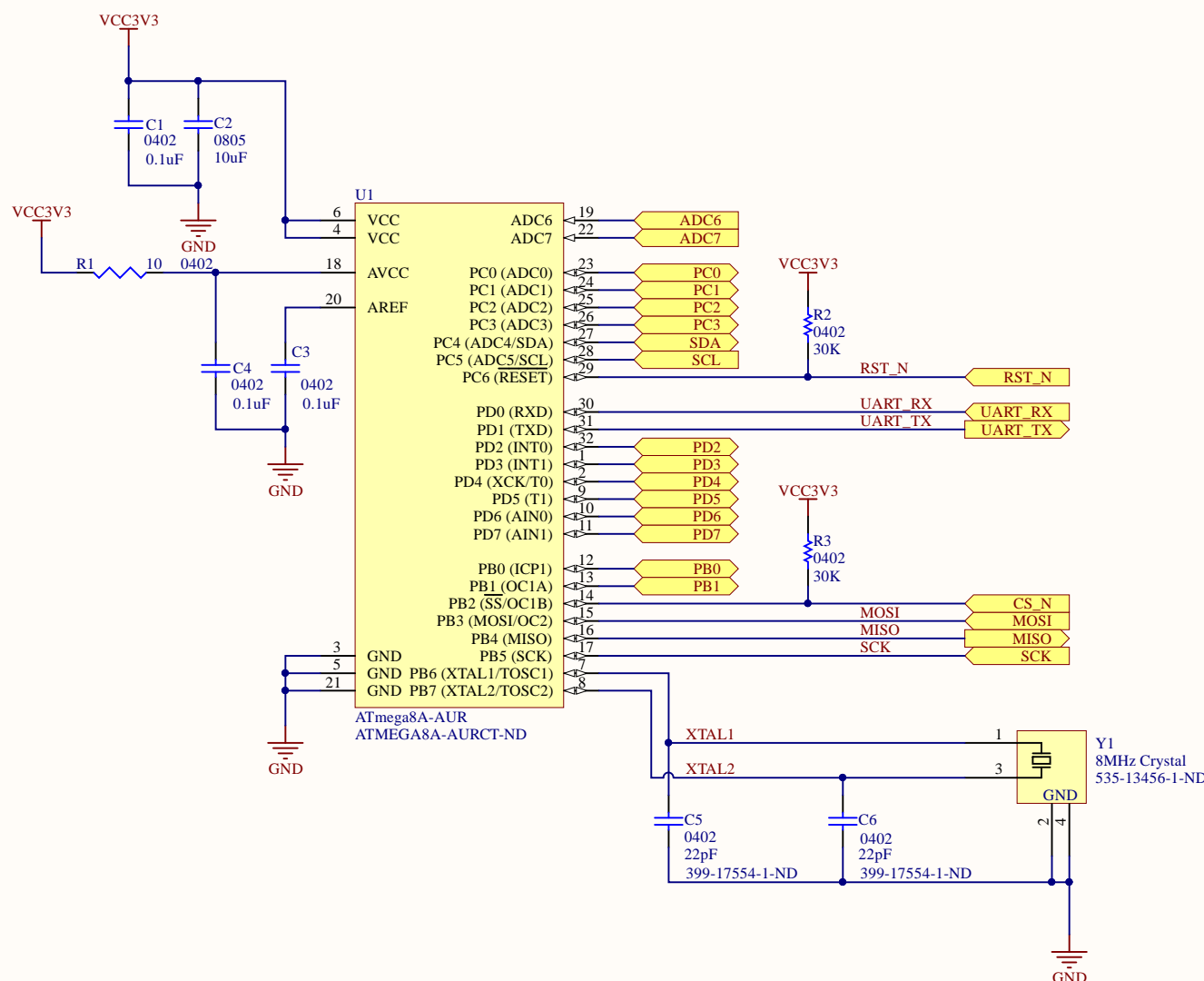
C

D

D

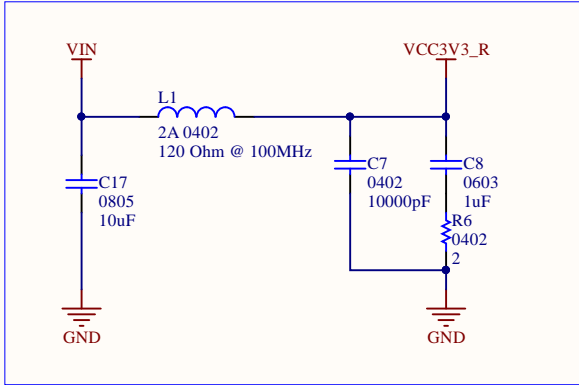


Title		
TOP.SchDoc		
Size	Number	Revision
A4	1	1.1
Date:	2019-06-02	Sheet 1 of 8
File:	C:\Users\... \TOP.SchDoc	Drawn By: Dylan Vogel

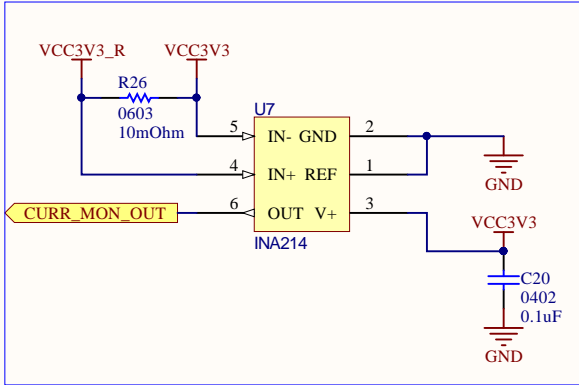


Title		
ATMEGA8A.SchDoc		
Size	Number	Revision
A4	2	1.1
Date:	2019-06-02	Sheet 2 of 8
File:	C:\Users\...\ATMEGA8A.SchDoc	Drawn By: Dylan Vogel

INPUT FILTERING

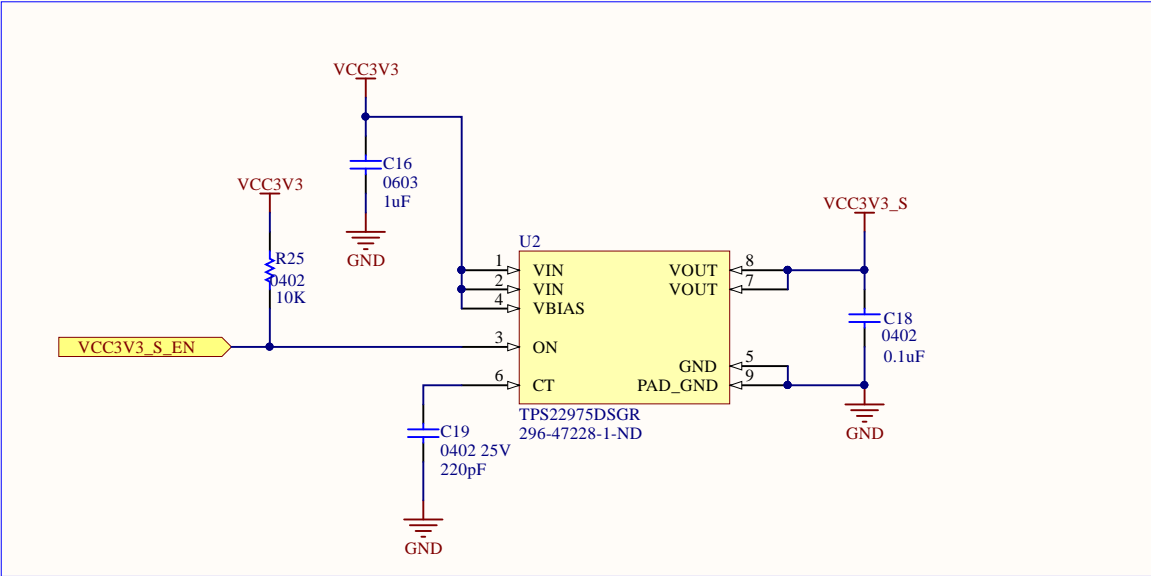


CURRENT MONITOR

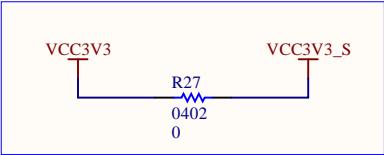


(SAD REACT WHOEVER MADE THIS INA214 SYMBOL)

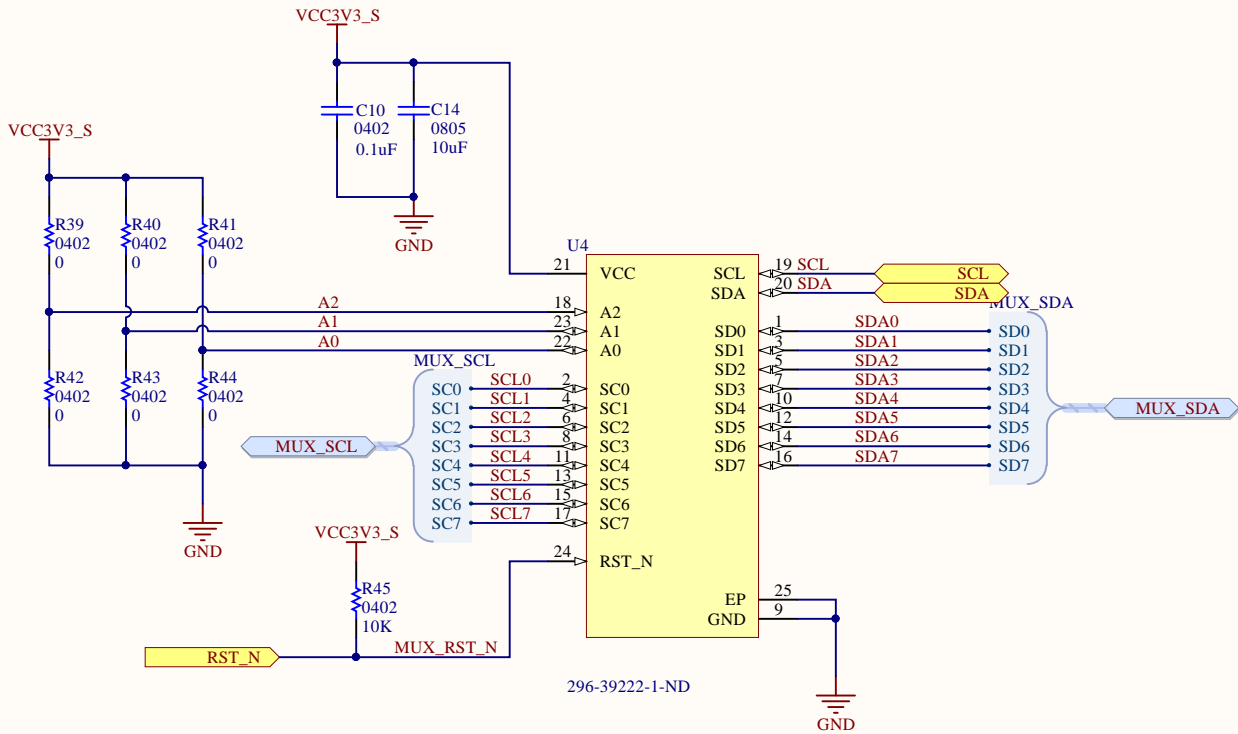
3V3 SENSOR SUPPLY SWITCH



EMERGENCY "I DON'T WANT ANY OF THIS NEWFANGLED SWITCH NONSENSE" SHUNT

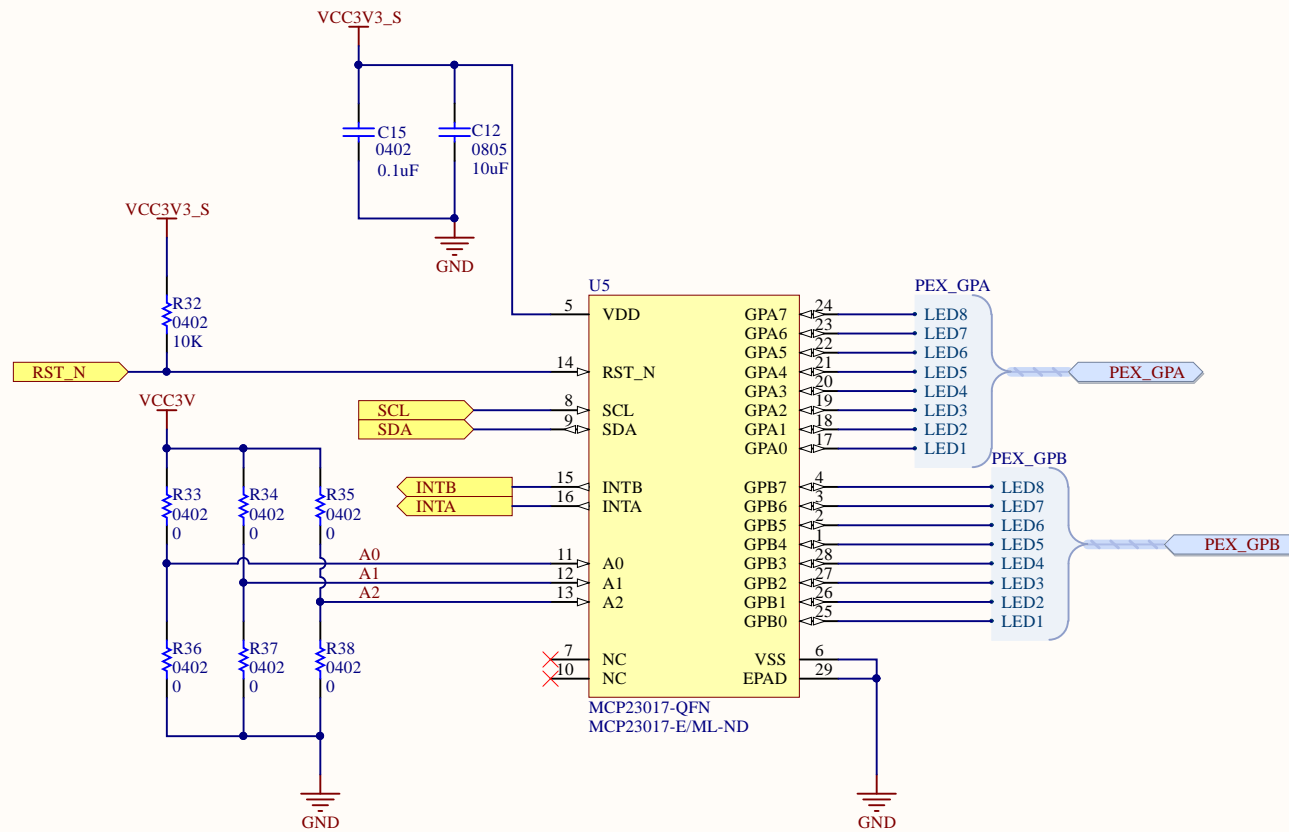


Title		
Power.SchDoc		
Size	Number	Revision
A4	3	1.1
Date:	2019-06-02	Sheet 3 of 8
File:	C:\Users\...\Power.SchDoc	Drawn By: Dylan Vogel



ADDRESS:

Title		
I2C Mux.SchDoc		
Size	Number	Revision
A4	4	1.1
Date:	2019-06-02	Sheet 4 of 8
File:	C:\Users\...\I2C Mux.SchDoc	Drawn By: Dylan Vogel



ADDRESS:

Title		
Port Expander.SchDoc		
Size	Number	Revision
A4	5	1.1
Date:	2019-06-02	Sheet 5 of 8
File:	C:\Users\...\Port Expander.SchDoc	Drawn By: Dylan Vogel

A

B

C

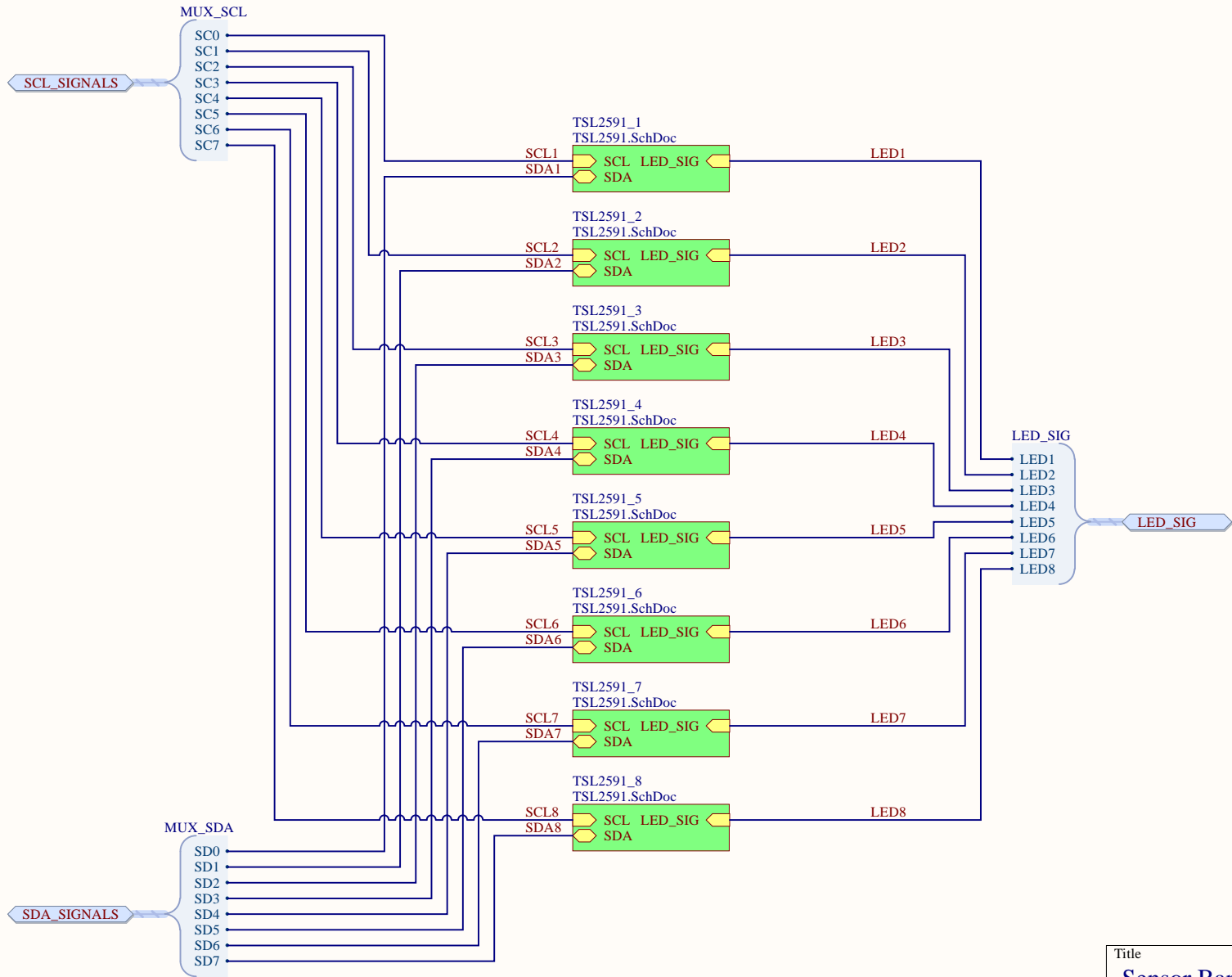
D

A

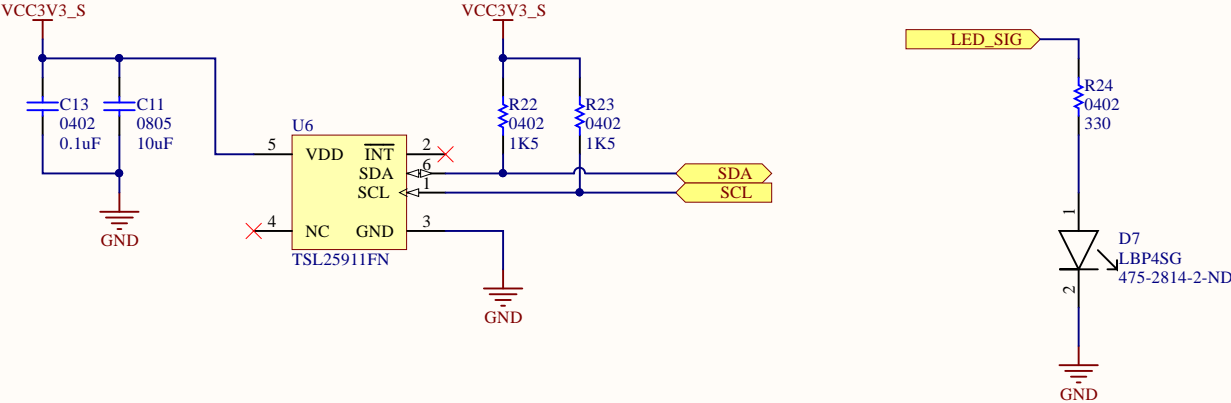
B

C

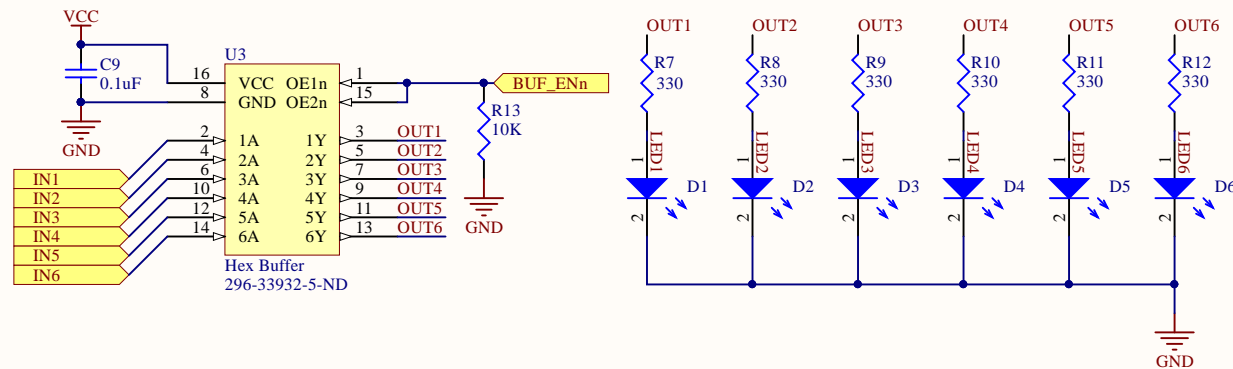
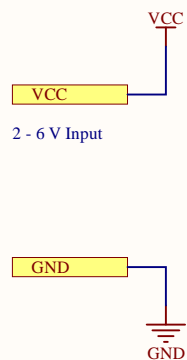
D



Title		
Sensor Bank.SchDoc		
Size	Number	Revision
A4	6	1.1
Date:	2019-06-02	Sheet 6 of 8
File:	C:\Users\...\Sensor Bank.SchDoc	Drawn By: Dylan Vogel



Title			
TSL2591.SchDoc			
Size	Number	Revision	
A4	7	1.1	
Date:	2019-06-02	Sheet	7 of 8
File:	C:\Users\...\\TSL2591.SchDoc	Drawn By:	Dylan Vogel



This schematic implements the SN74HC365PW non-inverting, tri-state hex buffer as an LED monitoring circuit. Connecting a signal to IN[1:6] will light up the corresponding LED on OUT[1:6].

- The BUF_ENn input can be connected to a microcontroller to control the buffer. An input HIGH will set the outputs to high-impedance and disable the LEDs.
- In the schematic symbol which references this schematic sheet, parameters LED[1:6] can be added to specify the colour of each LED. See the micro-circuit common sheet for an example of this.
- Unconnected inputs should be grounded if you don't want random flickering of the LEDs.

Title		UTAT SS	
SN74HC365PW LED Monitoring			
Size	Number	Revision	
A4	8	1.0	
Date:	2019-06-02	Sheet 8	of 8
File:	C:\Users\led-monitoring-SN74HC365PW-SchDbg		
	By: Dylan Vogel		