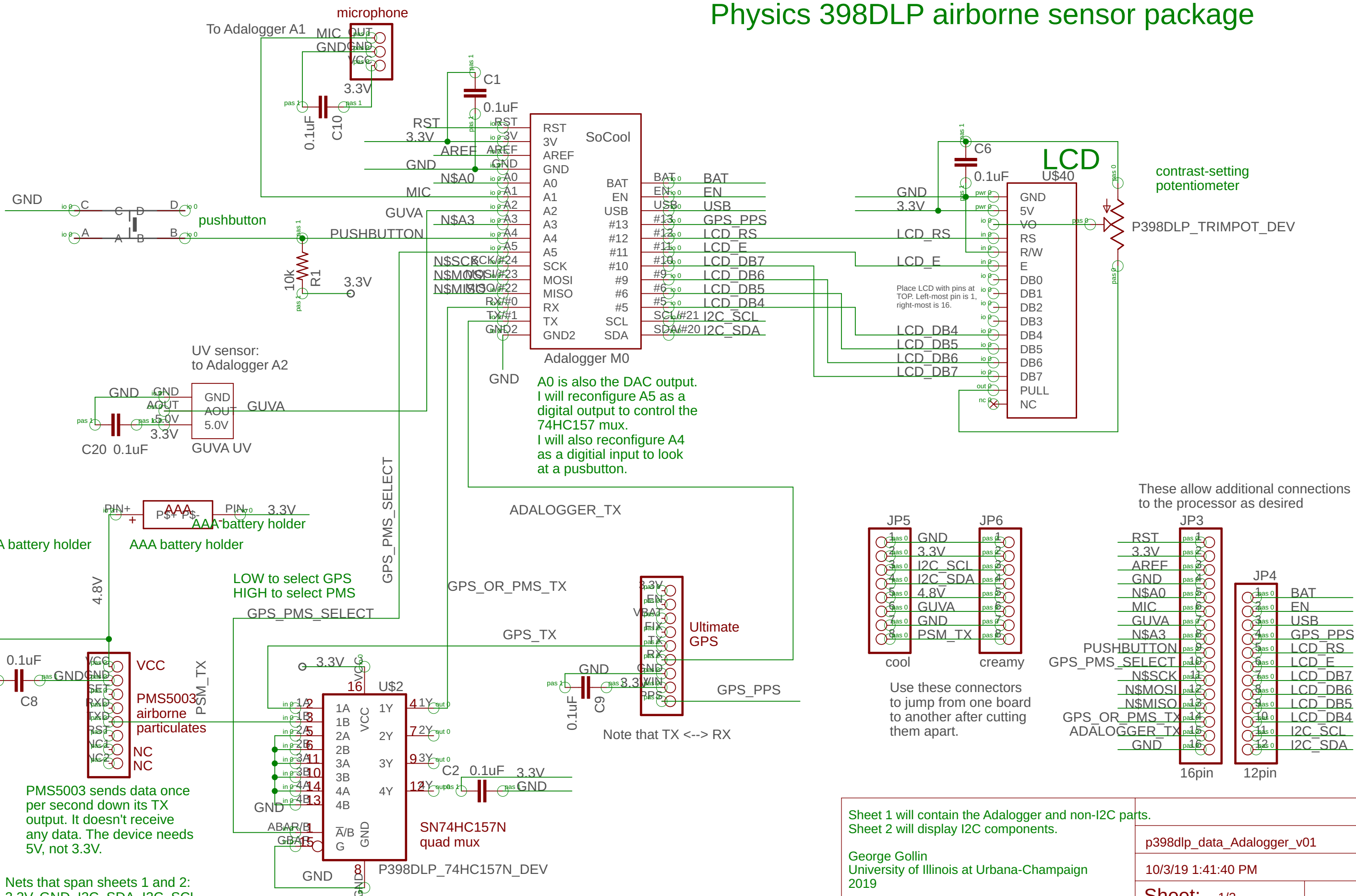
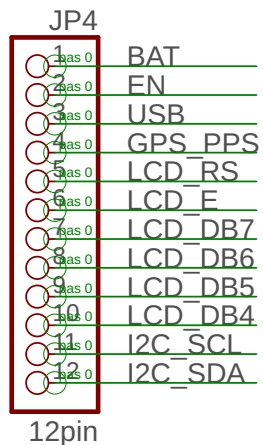
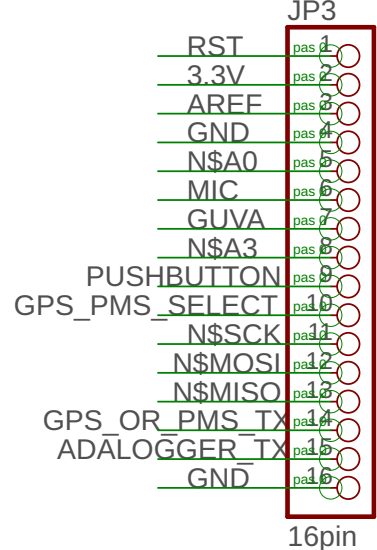
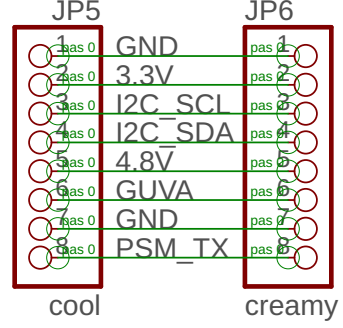


Physics 398DLP airborne sensor package



A0 is also the DAC output. I will reconfigure A5 as a digital output to control the 74HC157 mux. I will also reconfigure A4 as a digital input to look at a pushbutton.

These allow additional connections to the processor as desired



Sheet 1 will contain the Adalogger and non-I2C parts. Sheet 2 will display I2C components.

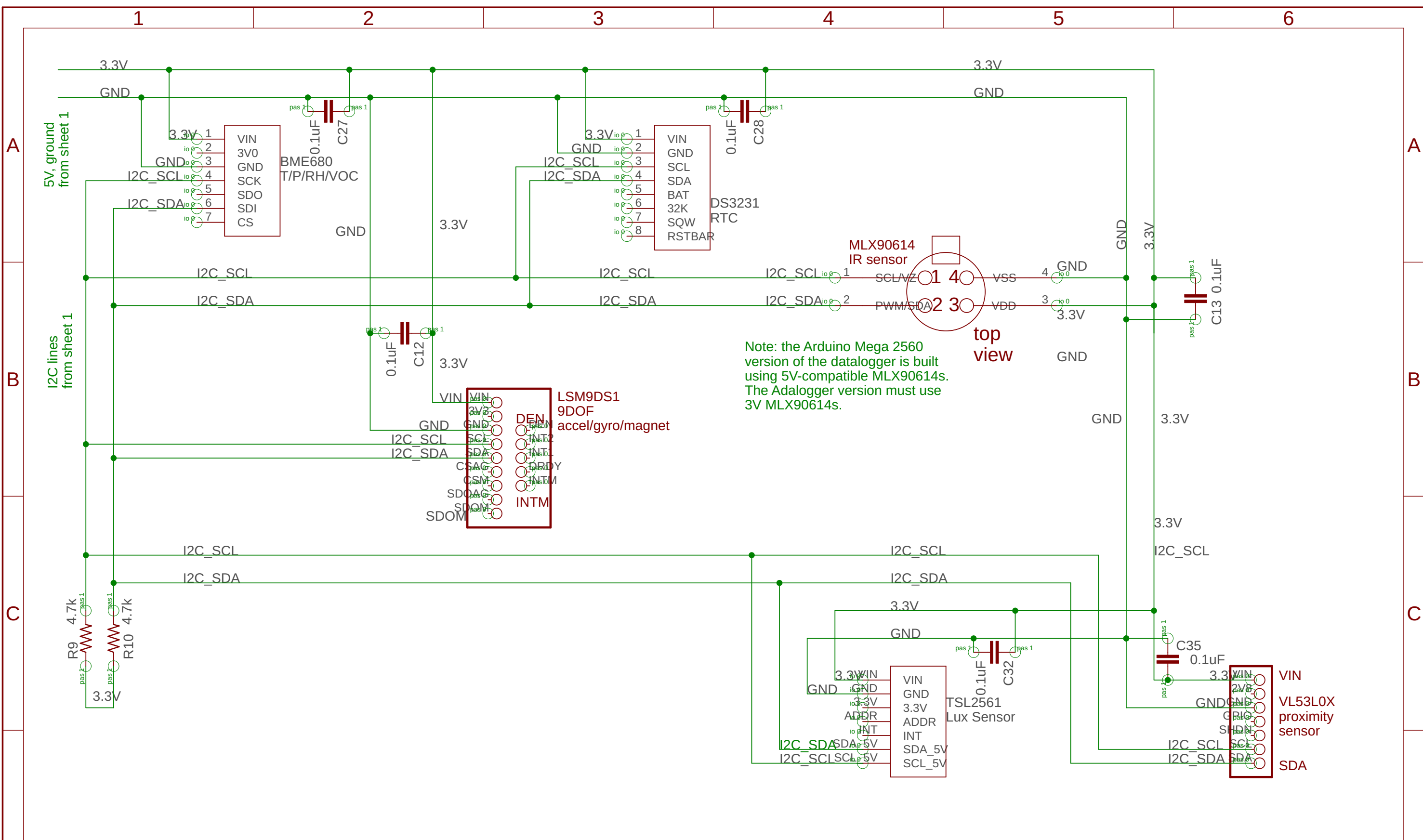
George Gollin
University of Illinois at Urbana-Champaign
2019

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Sheet: 1/2

Nets that span sheets 1 and 2:
3.3V, GND, I2C_SDA, I2C_SCL



Note: the Arduino Mega 2560 version of the datalogger is built using 5V-compatible MLX90614s. The Adalogger version must use 3V MLX90614s.



I2C device	comment	address
BME680	T/RH/P/VOC	0x76
DS3231	real time clock	0x68
LSM9DS1	3 axis accel/magnetometer/gyro	0x1E
MLX90614	IR sensor	0x5A
TCA9548A	I2C multiplexer	0x70
TSL2561	Luminosity/Lux/Light sensor	0x39 (need jumpers!)
VL53L0X	Time of Flight Distance Sensor	0x29

Nets that span sheets 1 and 2:
3.3V, GND, I2C_SDA, I2C_SCL

Sheet 1 contains the Adalogger and non-I2C parts. Sheet 2 contains I2C components.

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2019

p398dlp_data_Adalogger_v01

not saved!

Sheet: 2/2

