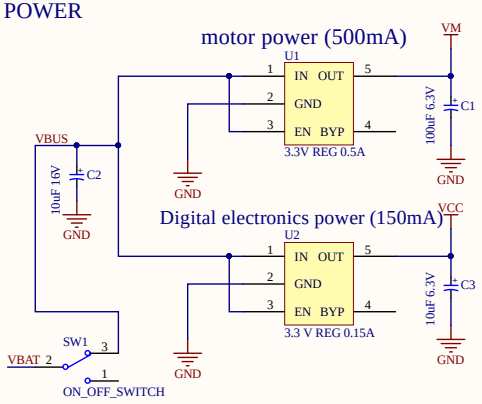
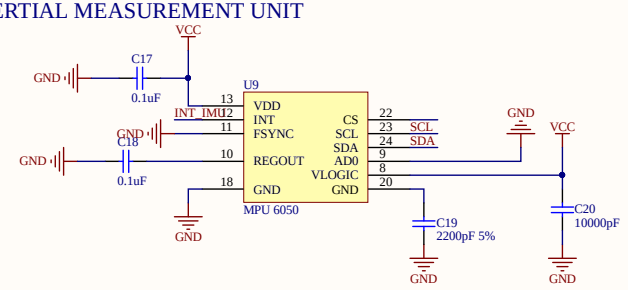
POWER



NOTES

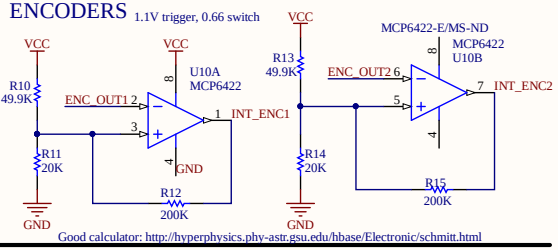
PROBLEMS:
1) SPI Port is not Arduino standard,
2) Threshold for comparators is a bit high. Try 8K for instead of 20K for R11 and R14 (Anything in the range from 10K to 3.3 K seems to work for max power LED)
3) Charger is a bit weird. Can't power and charge from USB at the same time.

INERTIAL MEASUREMENT UNIT



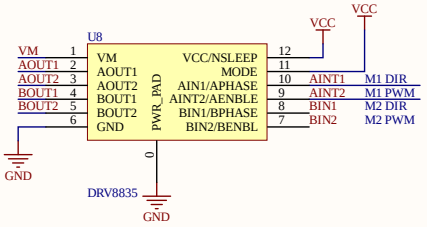
ENCODERS

1.1V trigger, 0.66 switch

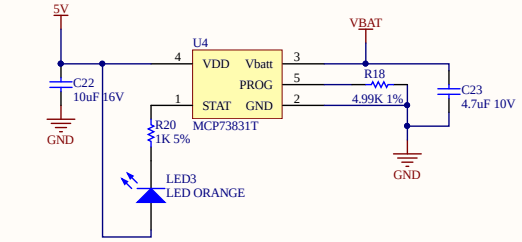


Good calculator: http://hyperphysics.phy-astr.gsu.edu/hbase/Electronic/schmitt.html

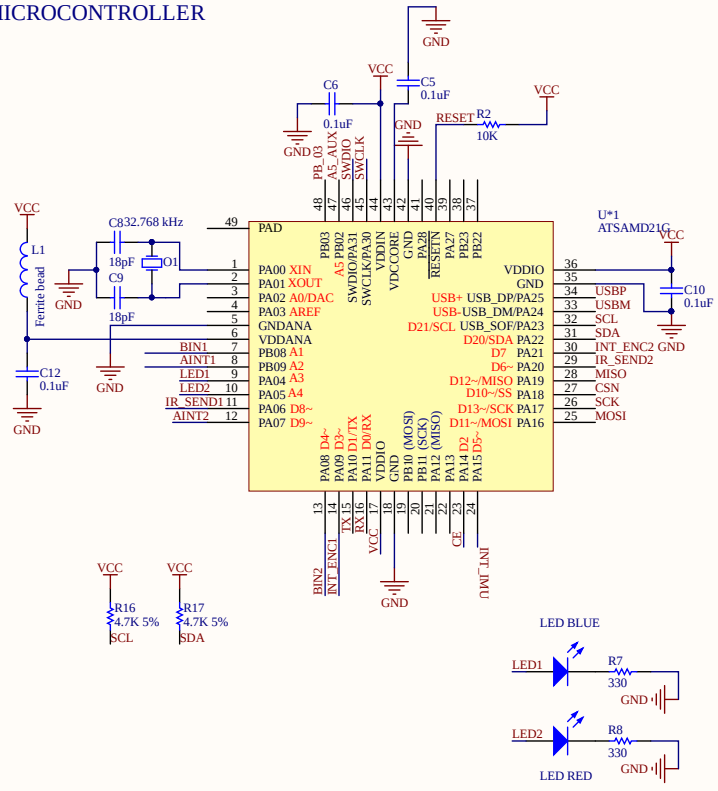
MOTOR CONTROLLER



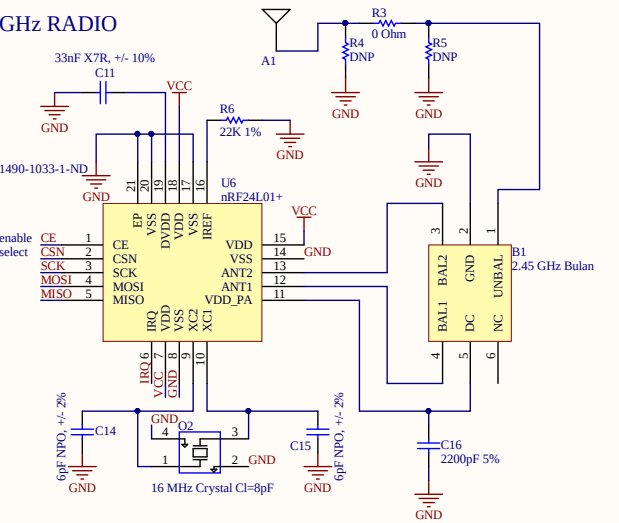
CHARGING



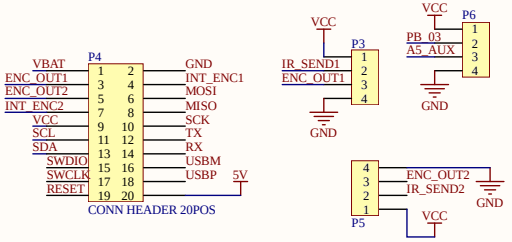
MICROCONTROLLER



2.4GHz RADIO

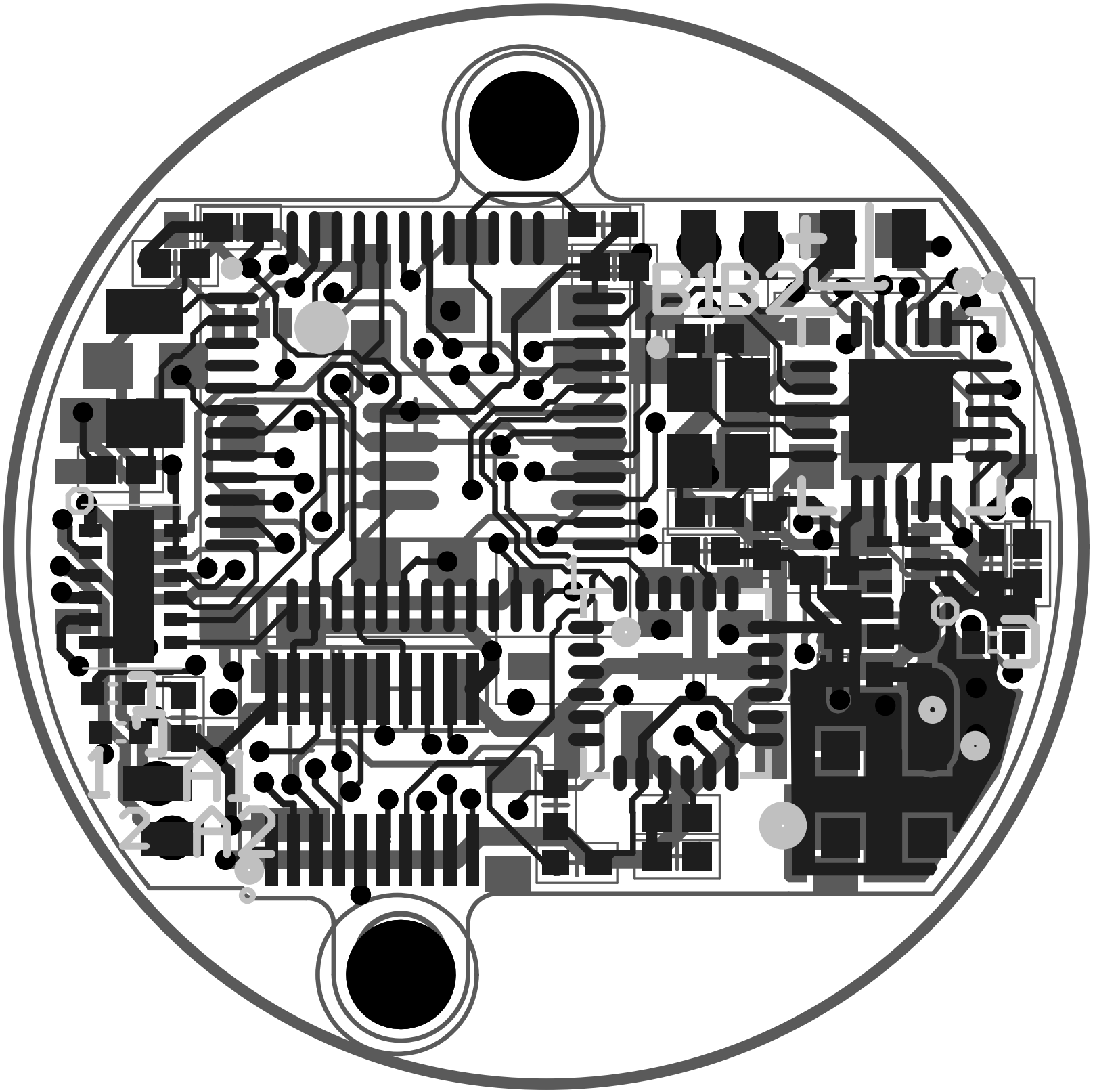


CONNECTORS



Title	Rovables Main Board		
Designed by	Artem Dementyev	Ver	3.0
Date:	2/2/2017	Time:	2:44:00 PM

mit media lab


B1
B2
1
A1
2
A2