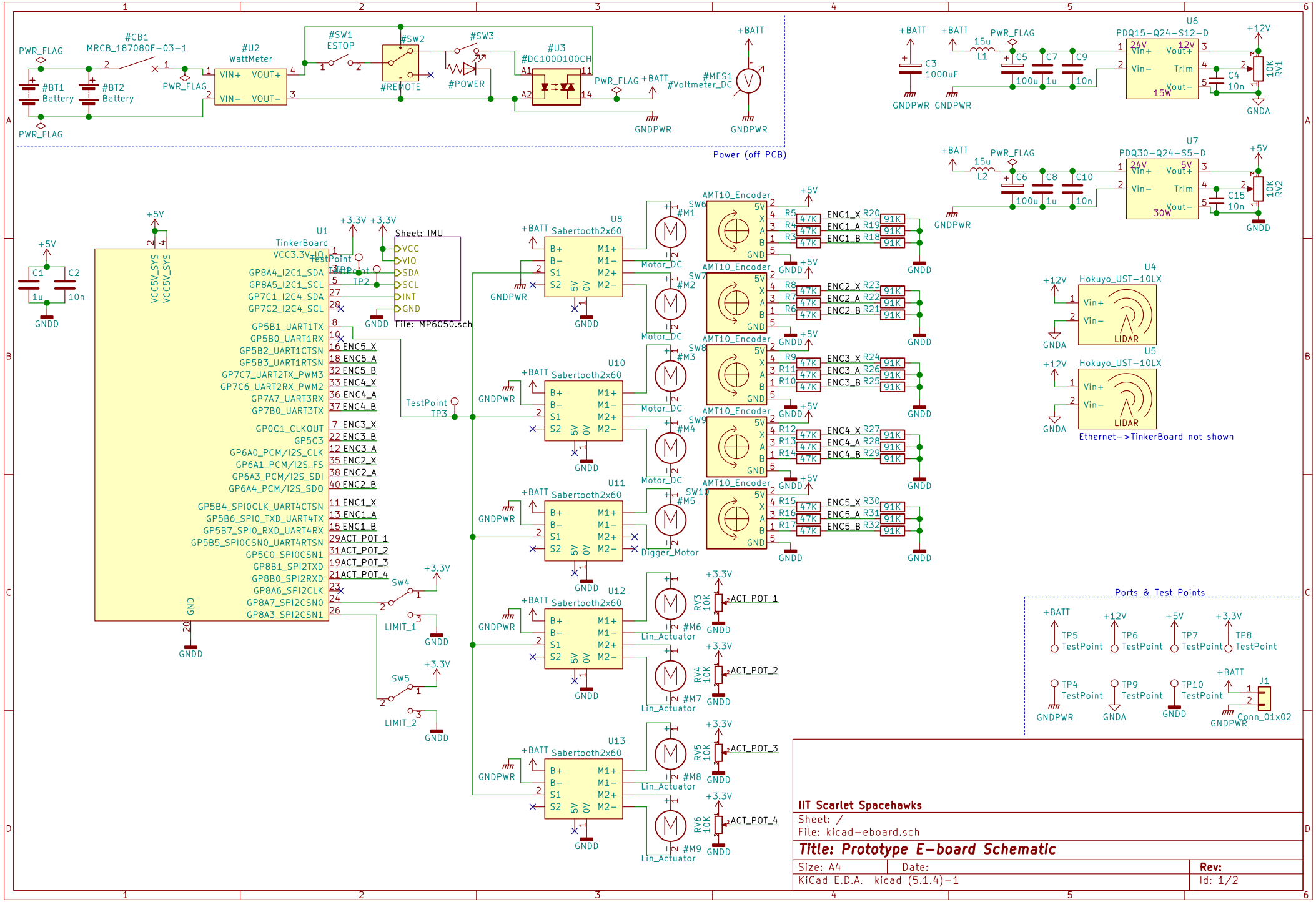

Power (off PCB)
#CB1
MRCB_187080F-03-1
#BT1
Battery
#BT2
Battery
#U2
WattMeter
#SW1
ESTOP
#SW2
#REMOTE
#SW3
#POWER
#U3
#DC100D100CH
#MES1
#Voltmeter_DC
U6
PDQ15-Q24-S12-D
U7
PDQ30-Q24-S5-D
U1
TinkerBoard
Sheet: IMU
File: MP6050.sch
U8
U10
U11
U12
U13
Sabertooth2x60
AMT10_Encoder
Motor_DC
Digger_Motor
Lin_Actuator
U4
U5
Hokuyo_UST-10LX
LIDAR
Ethernet->TinkerBoard not shown
Ports & Test Points
IIT Scarlet Spacehawks
Sheet: /
File: kicad-eboard.sch
Title: Prototype E-board Schematic
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (5.1.4)-1
Id: 1/2

Changes to V11

SCL and SDA were switched on V10, fixed on V11
Broke out VLOGIC line
C2 was mislabled as 10nF, should have been 2.2nF.
Added selectable jumpers to CLK, FSYNC and AD0
Minor layout changes
Played around with IC footprint.
Added 4 small tcream squares to middle pad.
Rounded and elongated pads.

BOM changes

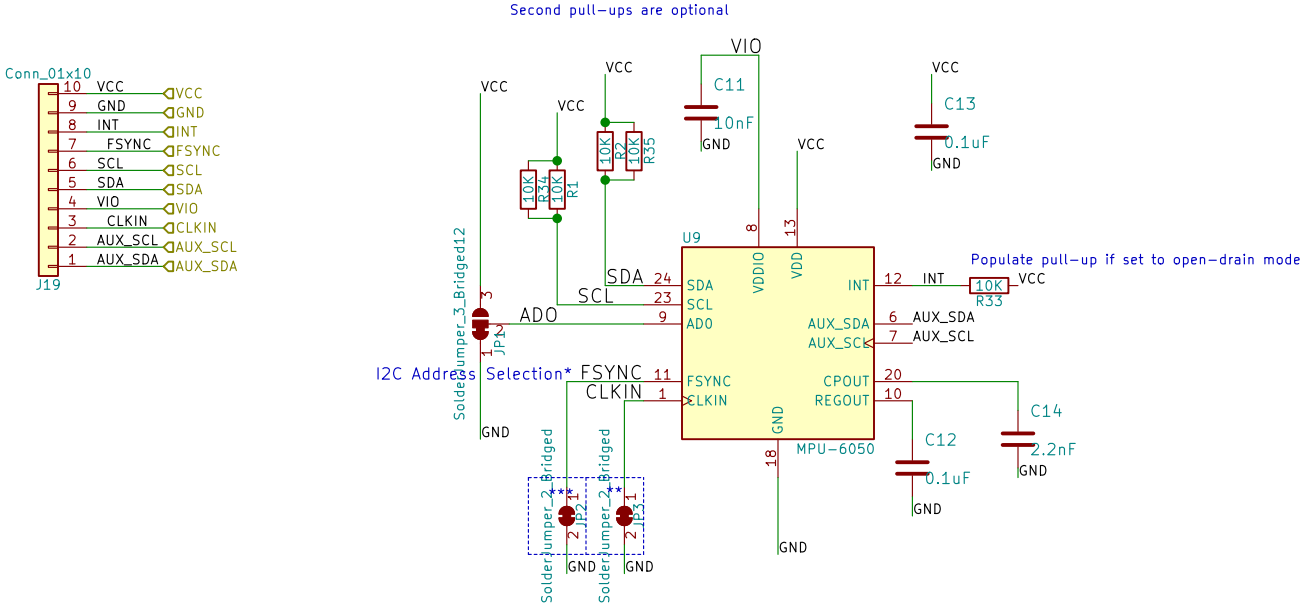
YES
C2 is now 2.2nF instead of 10nF

New Stencil

YES

Changes to V12:

-0402 --> 0603
-Changed Z-Axis symbol to reflect proper
orientation from circle with x to circle with dot
-Changed NET labels in schematic to flags



* Two MPU-60X0s can be connected to the same I2C bus
The LSB bit of the 7 bit address is determined by the logic level on pin AD0.
Default Address = 0x68 (pin AD0 is logic low)
Alternative Address =0x69 (pin AD0 is logic high)

** Optional external reference clock input. Connected to GND by default.
Cut trace for external clock

*** Frame synchronization digital input. Connected to GND by default
Cut trace for external sync

Rewritten by Gabe
Sparkfun
Sheet: /IMU/
File: MP6050.sch

Title: MP6050 Breakout Board

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.4)-1		Id: 2/2