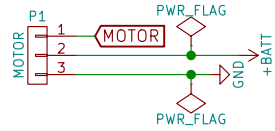


GHOST rev 1

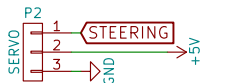
Motor is a Hobbyking XC-10A ESC (Product ID: 913000001)
It has a 5V regulator onboard which supplies the PCB with power.
3 pin connector is thus a power-input, but also used for PWM controlling motor.



General purpose switch.
Google 'Teensy Input with Pullup' for code.



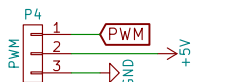
Steering can be a SG-90 microservo.



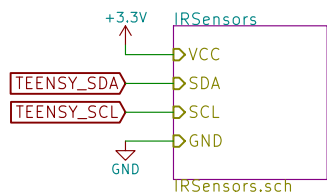
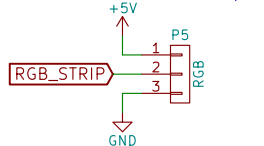
Start is from Startmodule.com.
NB, use female header.
Can be power-cycled from Teensy
VCC: 3.3-5V



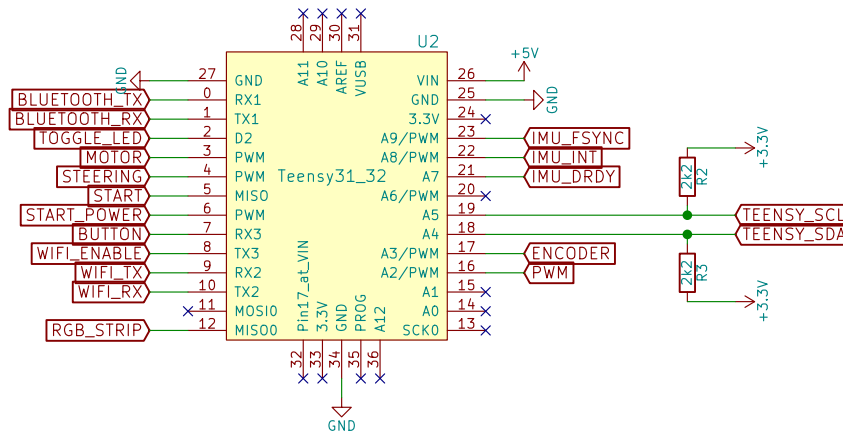
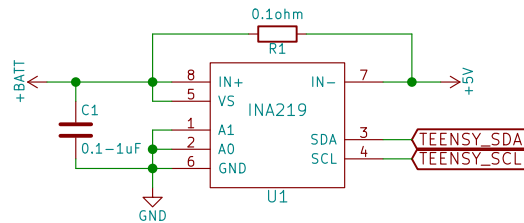
General purpose PWM connector



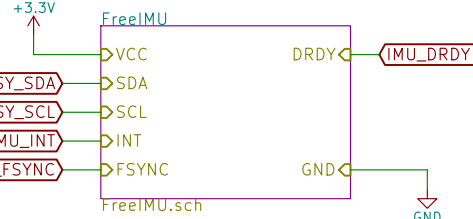
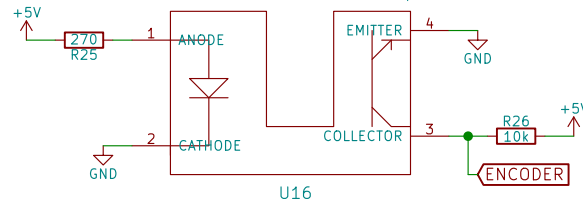
WS2812 LED strip
NB, each LED can draw up to 60mA



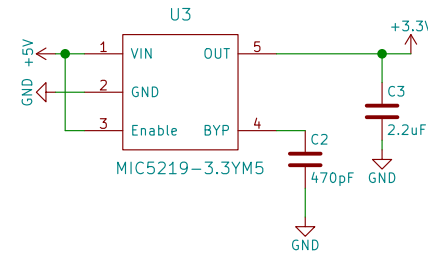
Current sensor - INA219BIDR
Farnell: 2496402
I2C addr: 0x40



KTIR0611S
Used to detect rotations of main drive shaft
Transmissive_Photo_Interruption

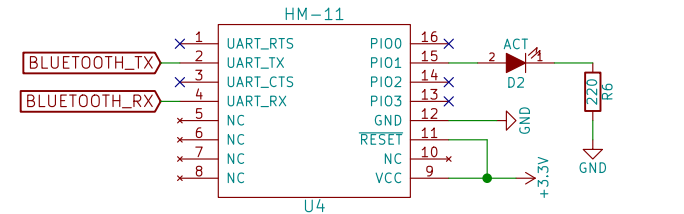


MIC5219 3.3V LDO regulator (max 500mA out)

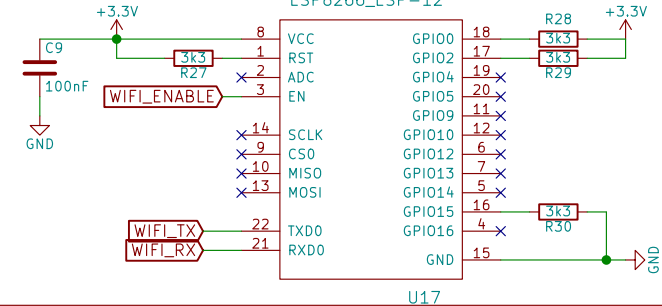


Bluetooth, HM-11
VCC: 2.5 - 3.7
Pull Reset-pin to ground for 5ms to reset.

http://www.seedstudio.com/wiki/Bluetooth_V4.0_HM-11_BLE_Module
<http://lightlogproject.org/blog/tag/hm-11/>



Wireless Network. Can be enabled/disabled.
ESP8266_ESP-12



Frode Lillerud

Sheet: /
File: Ghost.sch

Title: Ghost - Folkracer

Size: A4 Date: 2016-05-27

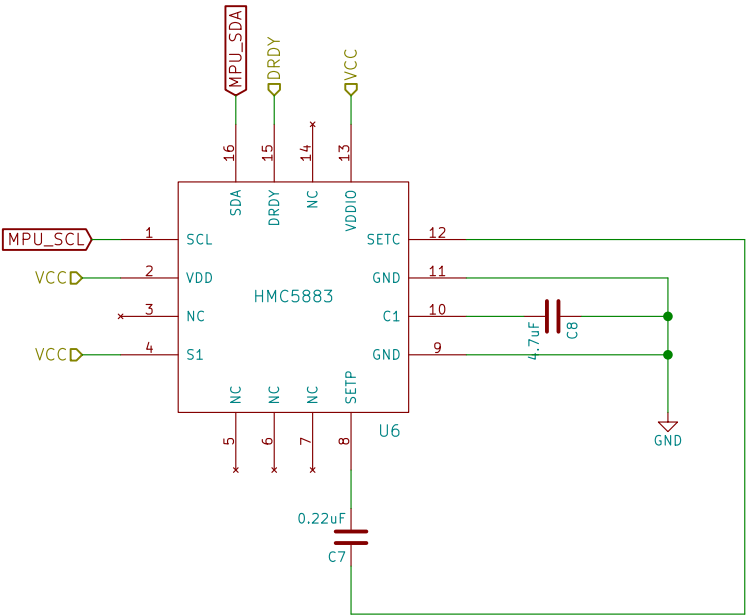
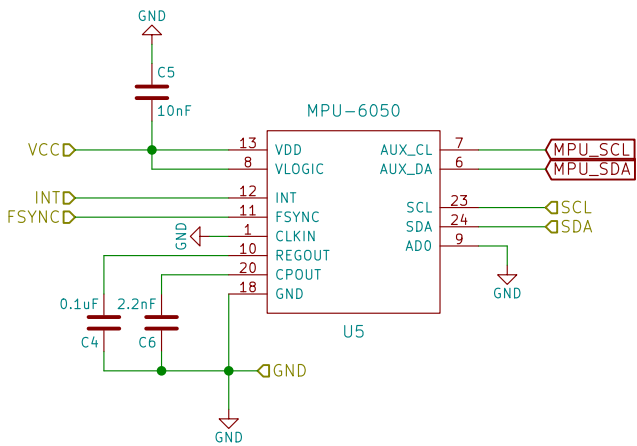
KiCad E.D.A. kicad 4.0.2-stable

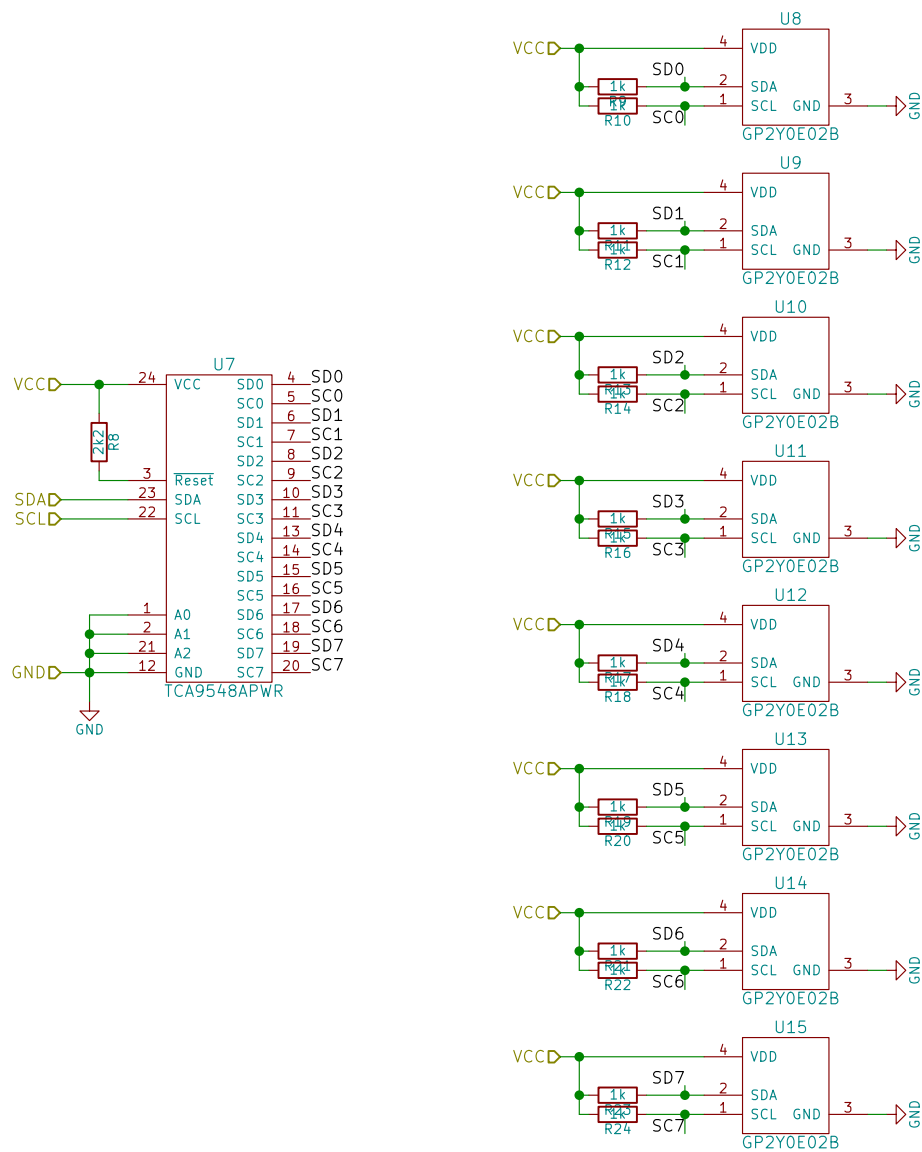
Rev:

Id: 1/3

FreeIMU

MPU-6050 (Farnell: 186474, QFN-24)
I2C address: 0x68 / 0x69 (depends on AD0 low or high)





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Size: A4	Date:	Rev:
KiCad E.D.A. kicad 4.0.2-stable		Id: 3/3