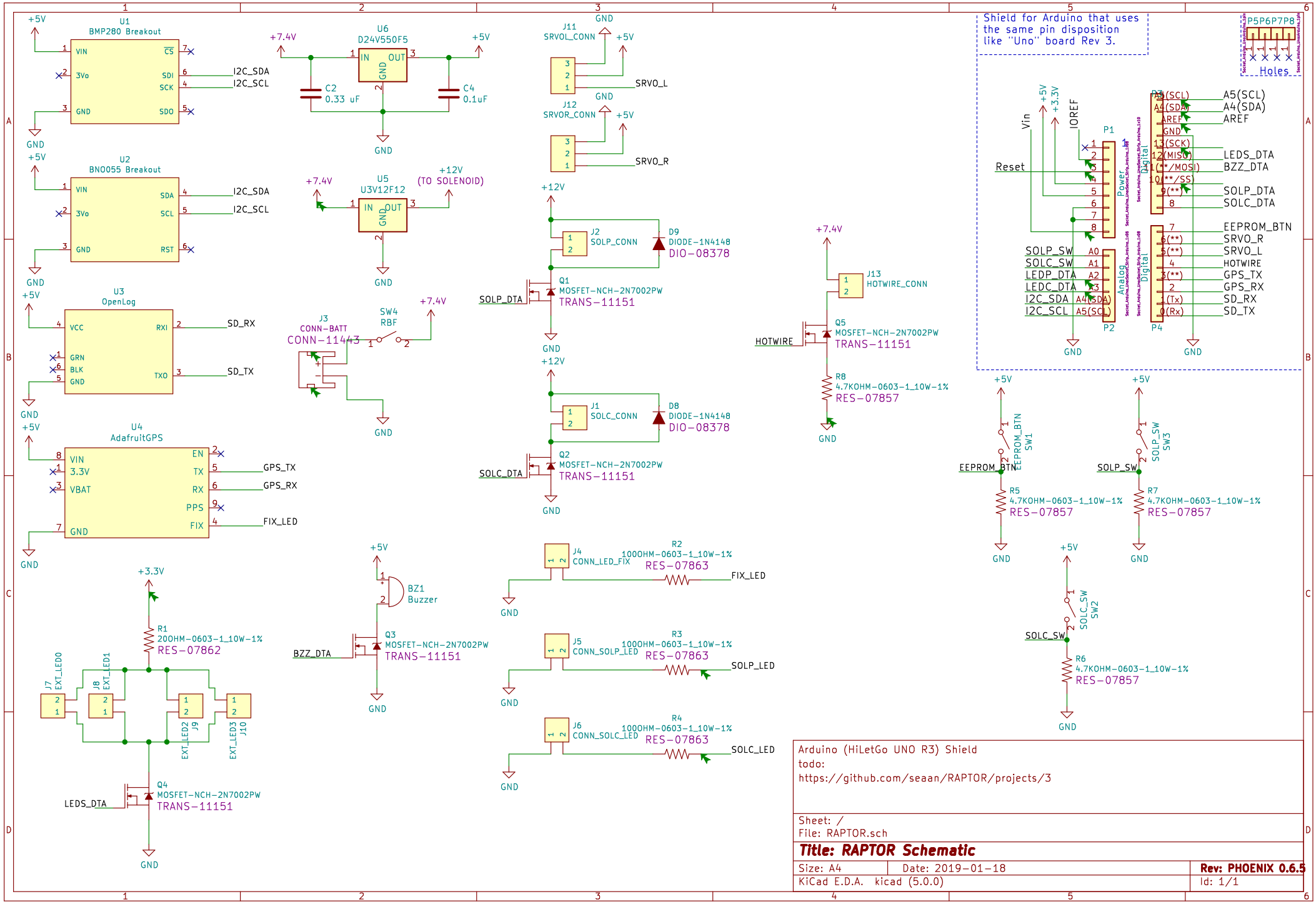
U1
BMP280 Breakout
VIN
3Vo
GND
CS
SDI
SCK
SDO
I2C_SDA
I2C_SCL
U2
BNO055 Breakout
VIN
3Vo
GND
SDA
SCL
RST
U3
OpenLog
VCC
GRN
BLK
GND
RXI
TXO
SD_RX
SD_TX
U4
AdafruitGPS
VIN
3.3V
VBAT
GND
EN
TX
RX
PPS
FIX
GPS_TX
GPS_RX
FIX_LED
U6
D24V550F5
IN
OUT
GND
C2
0.33 uF
C4
0.1uF
U5
U3V12F12
+12V
(TO SOLENOID)
J3
CONN-BATT
CONN-11443
SW4
RBF
J11
SRVOL_CONN
SRVO_L
J12
SRVOR_CONN
SRVO_R
J2
SOLP_CONN
D9
DIODE-1N4148
DIO-08378
Q1
MOSFET-NCH-2N7002PW
TRANS-11151
SOLP_DTA
J1
SOLC_CONN
D8
DIODE-1N4148
DIO-08378
Q2
MOSFET-NCH-2N7002PW
TRANS-11151
SOLC_DTA
J13
HOTWIRE_CONN
Q5
MOSFET-NCH-2N7002PW
TRANS-11151
HOTWIRE
R8
4.7KOHM-0603-1_10W-1%
RES-07857
Shield for Arduino that uses
the same pin disposition
like "Uno" board Rev 3.
P5P6P7P8
Holes
Vin
+5V
+3.3V
IOREF
Reset
P1
Power
P2
Analog
P3
Digital
P4
Digital
A5(SCL)
A4(SDA)
AREF
GND
13(SCK)
12(MISO)
11(**/MOSI)
10(**/SS)
9(**)
8
7
6(**)
5(**)
4
3(**)
2
1(Tx)
0(Rx)
LEDS_DTA
BZZ_DTA
SOLP_DTA
SOLC_DTA
EEPROM_BTN
SRVO_R
SRVO_L
HOTWIRE
GPS_TX
GPS_RX
SD_RX
SD_TX
SOLP_SW
SOLC_SW
LEDP_DTA
LEDC_DTA
I2C_SDA
I2C_SCL
A0
A1
A2
A3
A4(SDA)
A5(SCL)
EEPROM_BTN
SW1
SOLP_SW
SW3
SOLC_SW
SW2
R5
4.7KOHM-0603-1_10W-1%
RES-07857
R7
4.7KOHM-0603-1_10W-1%
RES-07857
R6
4.7KOHM-0603-1_10W-1%
RES-07857
BZ1
Buzzer
Q3
MOSFET-NCH-2N7002PW
TRANS-11151
BZZ_DTA
R1
200HM-0603-1_10W-1%
RES-07862
J7
EXT_LED0
J8
EXT_LED1
J9
EXT_LED2
J10
EXT_LED3
Q4
MOSFET-NCH-2N7002PW
TRANS-11151
LEDS_DTA
J4
CONN_LED_FIX
R2
100OHM-0603-1_10W-1%
RES-07863
FIX_LED
J5
CONN_SOLP_LED
R3
100OHM-0603-1_10W-1%
RES-07863
SOLP_LED
J6
CONN_SOLC_LED
R4
100OHM-0603-1_10W-1%
RES-07863
SOLC_LED
Arduino (HiLetGo UNO R3) Shield
todo:
https://github.com/seaan/RAPTOR/projects/3
Sheet: /
File: RAPTOR.sch
Title: RAPTOR Schematic
Size: A4
Date: 2019-01-18
Rev: PHOENIX 0.6.5
KiCad E.D.A. kicad (5.0.0)
Id: 1/1