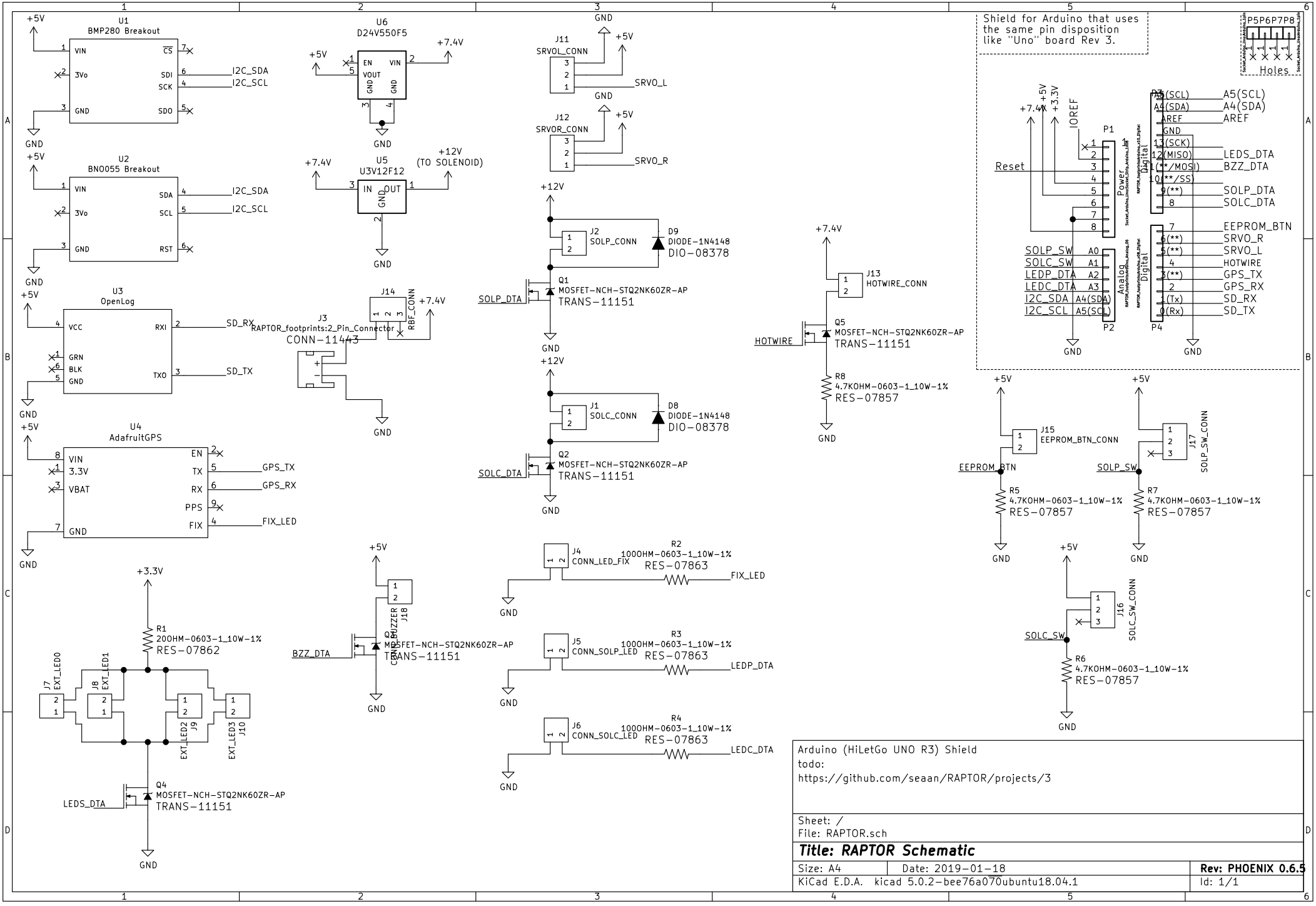
U1
BMP280 Breakout
VIN
3Vo
GND
CS
SDI
SCK
SDO
I2C_SDA
I2C_SCL
U2
BNO055 Breakout
VIN
3Vo
GND
SDA
SCL
RST
U3
OpenLog
VCC
GRN
BLK
GND
RXI
TXO
SD_RX
SD_TX
U4
AdafruitGPS
VIN
3.3V
VBAT
GND
EN
TX
RX
PPS
FIX
GPS_TX
GPS_RX
FIX_LED
U6
D24V550F5
EN
VOUT
GND
VIN
+7.4V
U5
U3V12F12
IN
GND
OUT
+12V
(TO SOLENOID)
J3
RAPTOR_footprints:2_Pin_Connector
CONN-11443
J14
RBF_CONN
J11
SRVOL_CONN
SRVO_L
J12
SRVOR_CONN
SRVO_R
J2
SOLP_CONN
D9
DIODE-1N4148
DIO-08378
Q1
MOSFET-NCH-STQ2NK60ZR-AP
TRANS-11151
SOLP_DTA
J1
SOLC_CONN
D8
DIODE-1N4148
DIO-08378
Q2
MOSFET-NCH-STQ2NK60ZR-AP
TRANS-11151
SOLC_DTA
J13
HOTWIRE_CONN
Q5
MOSFET-NCH-STQ2NK60ZR-AP
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
IOREF
P1
Power
Reset
SOLP_SW
SOLC_SW
LEDP_DTA
LEDC_DTA
I2C_SDA
I2C_SCL
A0
A1
A2
A3
A4(SDA)
A5(SCL)
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
J15
EEPROM_BTN_CONN
EEPROM_BTN
R5
4.7KOHM-0603-1_10W-1%
RES-07857
J17
SOLP_SW_CONN
SOLP_SW
R7
4.7KOHM-0603-1_10W-1%
RES-07857
J16
SOLC_SW_CONN
SOLC_SW
R6
4.7KOHM-0603-1_10W-1%
RES-07857
+3.3V
R1
200HM-0603-1_10W-1%
RES-07862
J7
EXT_LED0
J8
EXT_LED1
J9
EXT_LED2
J10
EXT_LED3
Q4
MOSFET-NCH-STQ2NK60ZR-AP
TRANS-11151
LEDS_DTA
J18
CONN_BUZZER
Q3
MOSFET-NCH-STQ2NK60ZR-AP
TRANS-11151
BZZ_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
LEDP_DTA
J6
CONN_SOLC_LED
R4
100OHM-0603-1_10W-1%
RES-07863
LEDC_DTA
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 5.0.2-bee76a070ubuntu18.04.1
Id: 1/1