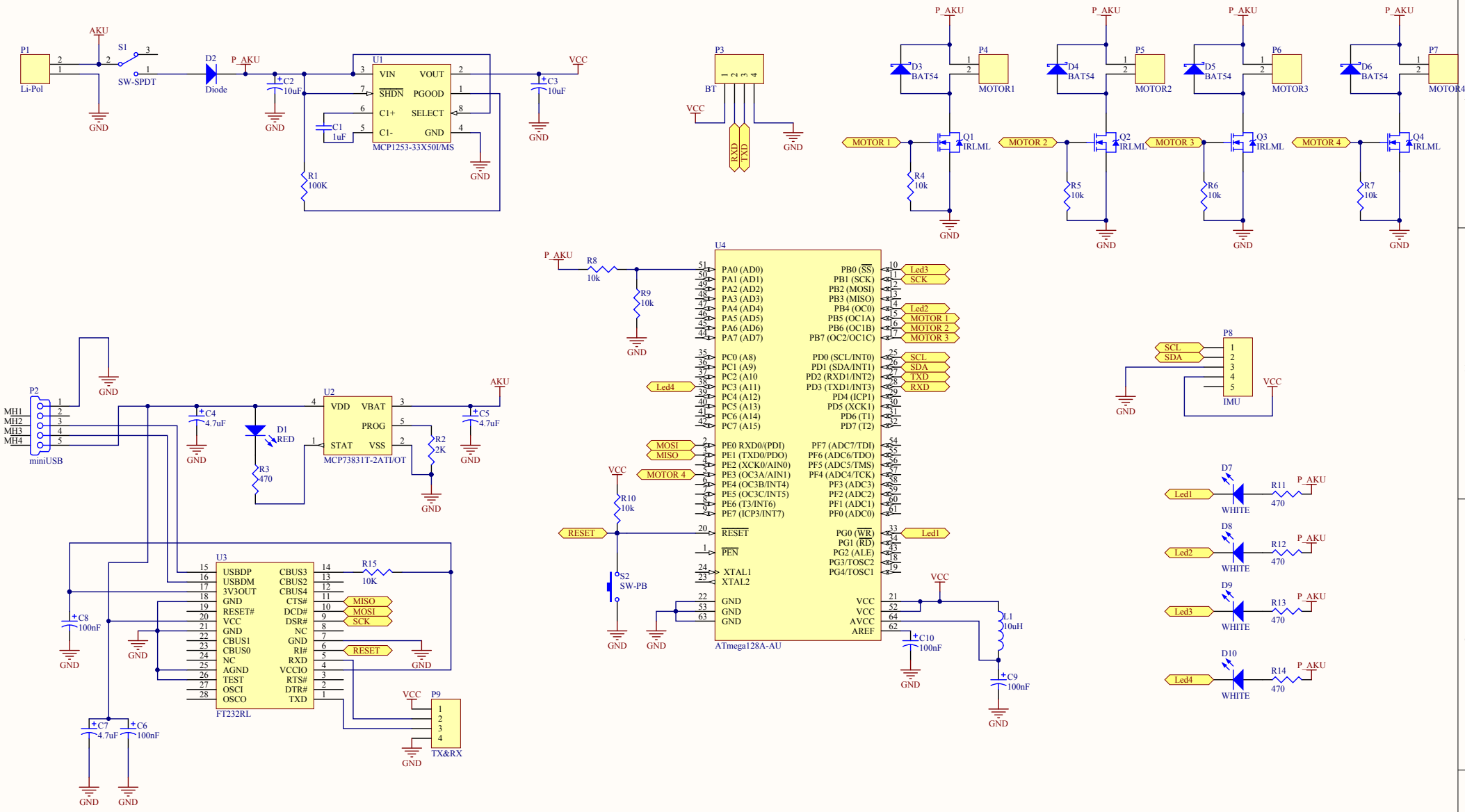
P1
Li-Pol
AKU
S1
SW-SPDT
D2
Diode
P_AKU
C2
10uF
GND
U1
VIN
VOUT
SHDN
PGOOD
C1+
SELECT
C1-
GND
MCP1253-33X50I/MS
C1
1uF
R1
100K
VCC
C3
10uF
P3
BT
VCC
RXD
TXD
GND
P_AKU
D3
BAT54
P4
MOTOR1
D4
BAT54
P5
MOTOR2
D5
BAT54
P6
MOTOR3
D6
BAT54
P7
MOTOR4
MOTOR 1
MOTOR 2
MOTOR 3
MOTOR 4
Q1
IRLML
Q2
IRLML
Q3
IRLML
Q4
IRLML
R4
10k
R5
10k
R6
10k
R7
10k
P2
MH1
MH2
MH3
MH4
miniUSB
C4
4.7uF
U2
VDD
VBAT
PROG
STAT
VSS
MCP73831T-2ATI/OT
D1
RED
R3
470
R2
2K
C5
4.7uF
AKU
U4
PA0 (AD0)
PA1 (AD1)
PA2 (AD2)
PA3 (AD3)
PA4 (AD4)
PA5 (AD5)
PA6 (AD6)
PA7 (AD7)
PB0 (SS)
PB1 (SCK)
PB2 (MOSI)
PB3 (MISO)
PB4 (OC0)
PB5 (OC1A)
PB6 (OC1B)
PB7 (OC2/OC1C)
PC0 (A8)
PC1 (A9)
PC2 (A10)
PC3 (A11)
PC4 (A12)
PC5 (A13)
PC6 (A14)
PC7 (A15)
PD0 (SCL/INT0)
PD1 (SDA/INT1)
PD2 (RXD1/INT2)
PD3 (TXD1/INT3)
PD4 (ICP1)
PD5 (XCK1)
PD6 (T1)
PD7 (T2)
PE0 RXD0/(PDI)
PE1 (TXD0/PDO)
PE2 (XCK0/AIN0)
PE3 (OC3A/AIN1)
PE4 (OC3B/INT4)
PE5 (OC3C/INT5)
PE6 (T3/INT6)
PE7 (ICP3/INT7)
PF7 (ADC7/TDI)
PF6 (ADC6/TDO)
PF5 (ADC5/TMS)
PF4 (ADC4/TCK)
PF3 (ADC3)
PF2 (ADC2)
PF1 (ADC1)
PF0 (ADC0)
RESET
PEN
XTAL1
XTAL2
PG0 (WR)
PG1 (RD)
PG2 (ALE)
PG3/TOSC2
PG4/TOSC1
GND
GND
GND
VCC
VCC
AVCC
AREF
ATmega128A-AU
R8
10k
R9
10k
R10
10k
S2
SW-PB
C10
100nF
L1
10uH
C9
100nF
Led3
SCK
Led2
MOTOR 1
MOTOR 2
MOTOR 3
SCL
SDA
TXD
RXD
MOSI
MISO
MOTOR 4
Led4
RESET
Led1
P8
IMU
D7
WHITE
R11
470
Led1
D8
WHITE
R12
470
Led2
D9
WHITE
R13
470
Led3
D10
WHITE
R14
470
Led4
U3
USBDP
USBDM
3V3OUT
GND
RESET#
VCC
GND
CBUS1
CBUS0
NC
AGND
TEST
OSCI
OSCO
CBUS3
CBUS2
CBUS4
CTS#
DCD#
DSR#
NC
GND
RI#
RXD
VCCIO
RTS#
DTR#
TXD
FT232RL
R15
10K
MISO
MOSI
SCK
RESET
C8
100nF
C7
4.7uF
C6
100nF
P9
TX&RX
Title
Size
A3
Number
Revision
Date:
2013-07-11
Sheet of
File:
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Drawn By: