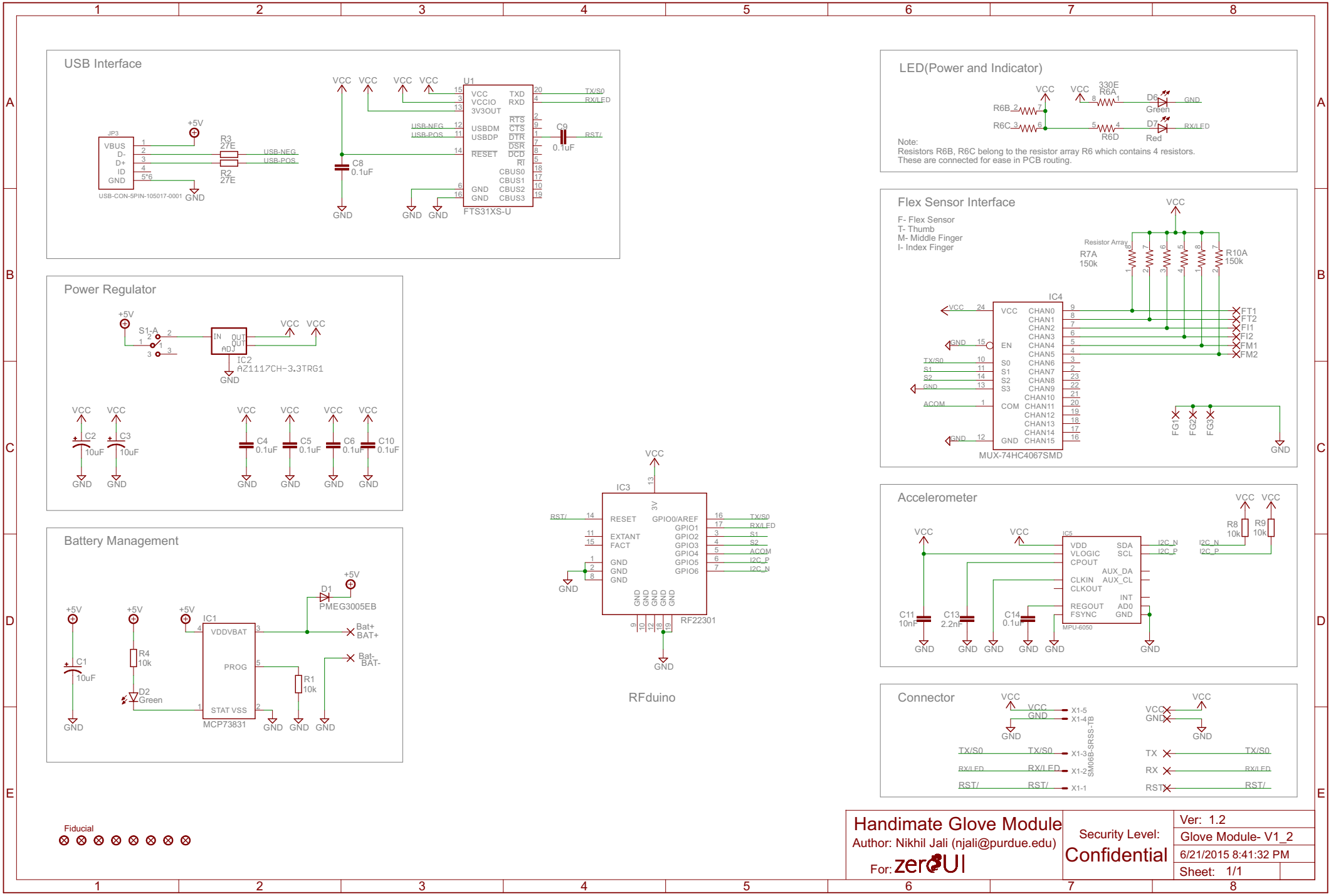
USB Interface
JP3
VBUS
D-
D+
ID
GND
5*6
USB-CON-5PIN-105017-0001
+5V
R3
27E
R2
27E
USB-NEG
USB-POS
GND
VCC
U1
VCC
VCCIO
3V3OUT
USBDM
USBDP
RESET
TXD
RXD
RTS
CTS
DTR
DSR
DCD
RI
CBUS0
CBUS1
CBUS2
CBUS3
TX/S0
RX/LED
RST/
C9
0.1uF
C8
0.1uF
FTS31XS-U
Power Regulator
S1-A
IN
OUT
OUT
ADJ
IC2
AZ1117CH-3.3TRG1
C2
10uF
C3
10uF
C4
0.1uF
C5
0.1uF
C6
0.1uF
C10
0.1uF
Battery Management
D1
PMEG3005EB
Bat+
BAT+
Bat-
BAT-
IC1
VDDVBAT
PROG
STAT VSS
MCP73831
C1
10uF
R4
10k
D2
Green
R1
10k
IC3
RESET
EXTANT
FACT
GND
GPIO0/AREF
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
3V
RF22301
RFduino
LED(Power and Indicator)
R6B
R6C
330E
R6A
R6D
D6
Green
D7
Red
Note:
Resistors R6B, R6C belong to the resistor array R6 which contains 4 resistors.
These are connected for ease in PCB routing.
Flex Sensor Interface
F- Flex Sensor
T- Thumb
M- Middle Finger
I- Index Finger
Resistor Array
R7A
150k
R10A
150k
IC4
EN
S0
S1
S2
S3
COM
CHAN0
CHAN1
CHAN2
CHAN3
CHAN4
CHAN5
CHAN6
CHAN7
CHAN8
CHAN9
CHAN10
CHAN11
CHAN12
CHAN13
CHAN14
CHAN15
ACOM
FT1
FT2
FI1
FI2
FM1
FM2
FG1
FG2
FG3
MUX-74HC4067SMD
Accelerometer
IC5
VDD
VLOGIC
CPOUT
CLKIN
CLKOUT
REGOUT
FSYNC
SDA
SCL
AUX_DA
AUX_CL
INT
AD0
MPU-6050
I2C_N
I2C_P
R8
10k
R9
10k
C11
10nF
C13
2.2nF
C14
0.1uF
Connector
X1-5
X1-4
X1-3
X1-2
X1-1
SM06B-SRSS-TB
TX/S0
RX/LED
RST/
TX
RX
Fiducial
Handimate Glove Module
Author: Nikhil Jali (njali@purdue.edu)
For: zeroUI
Security Level:
Confidential
Ver: 1.2
Glove Module- V1_2
6/21/2015 8:41:32 PM
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