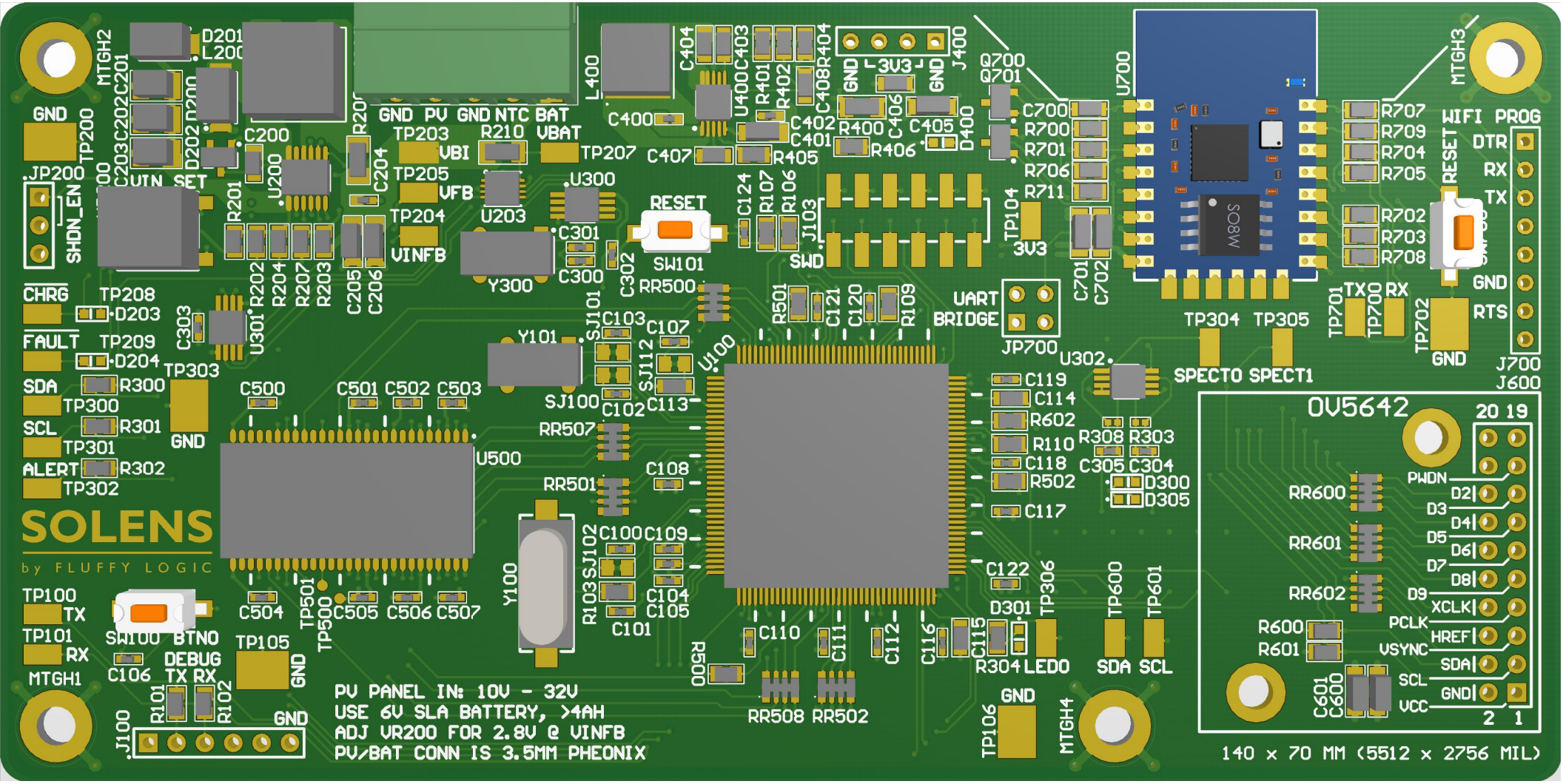
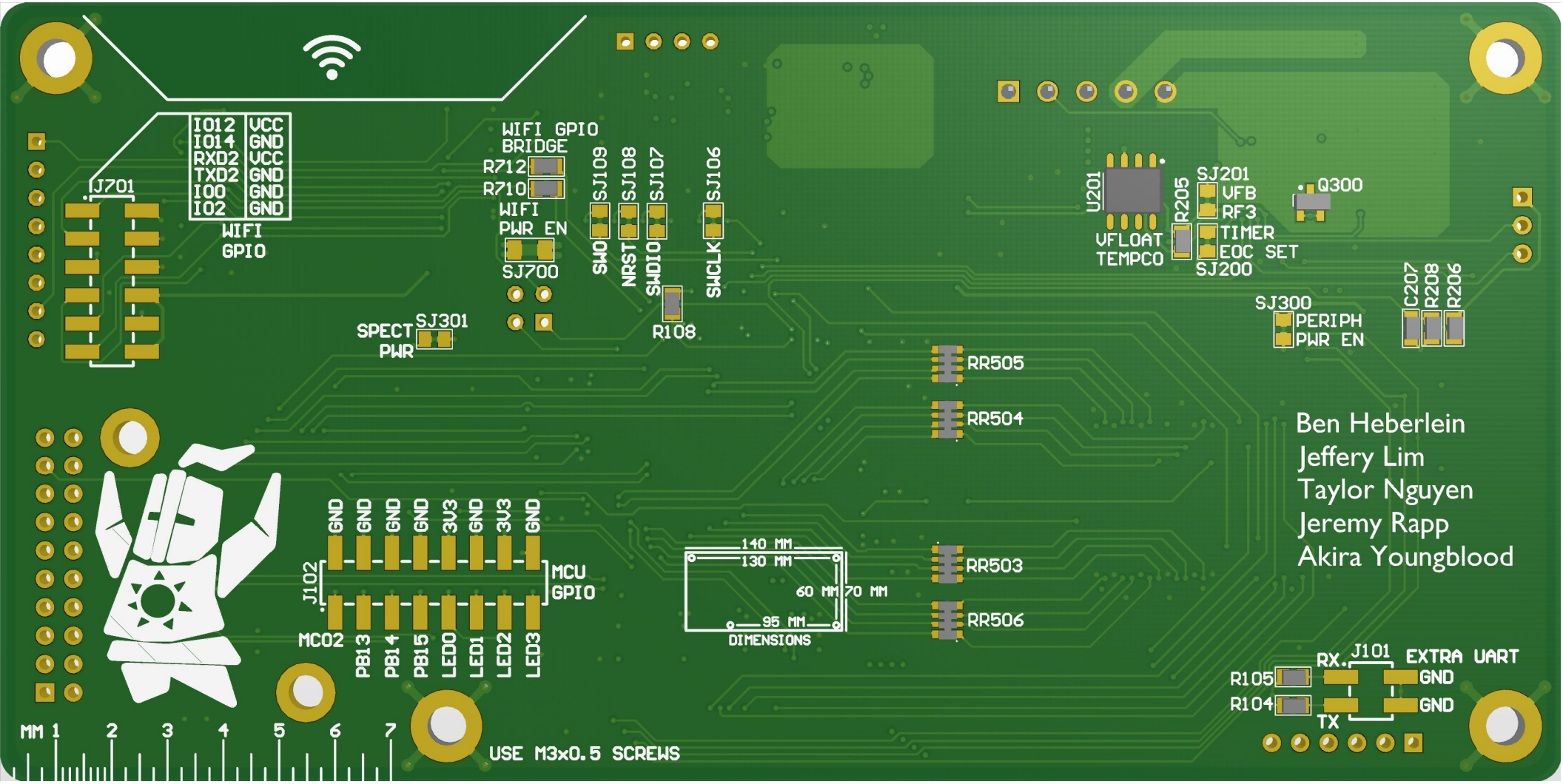
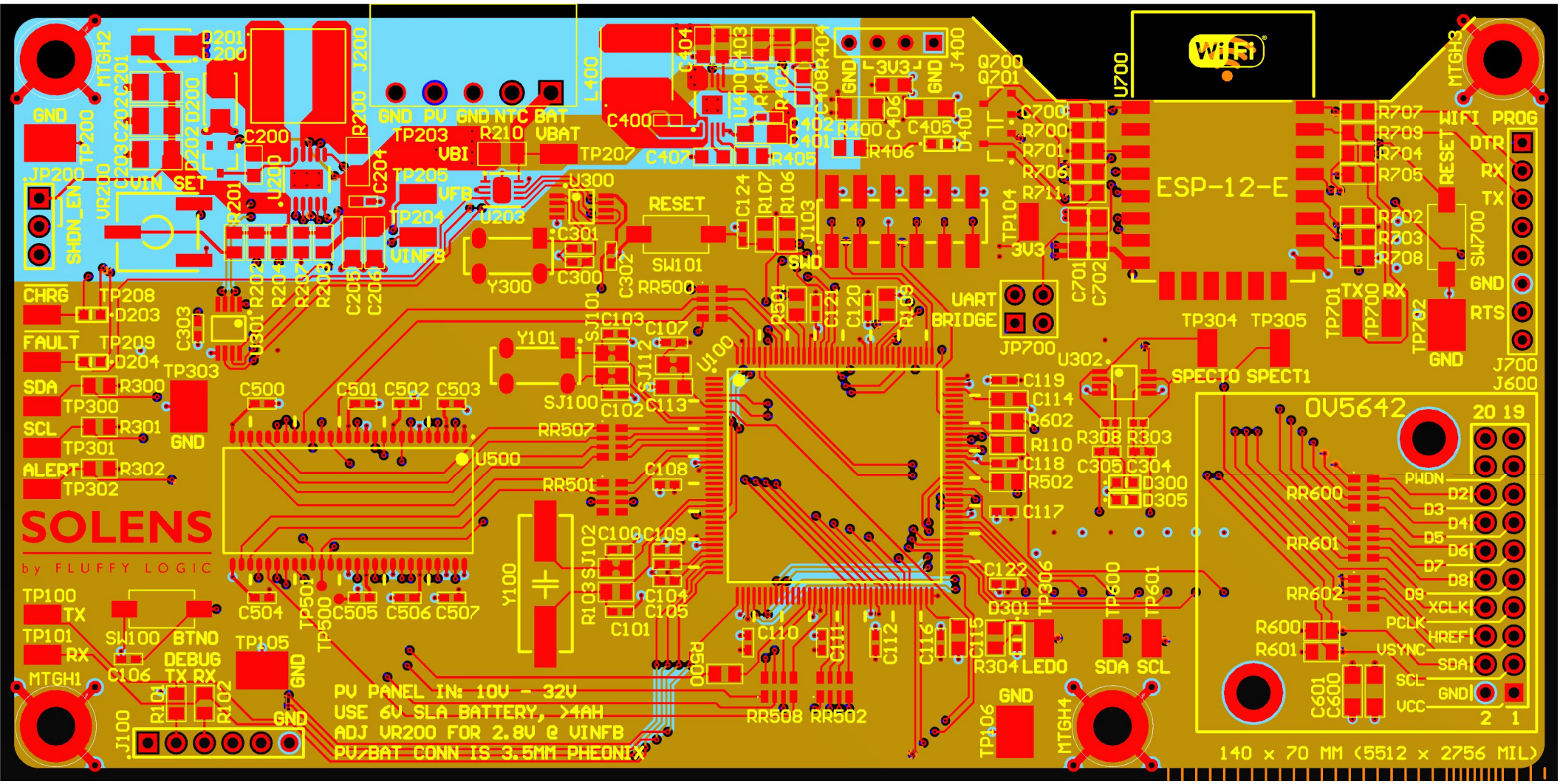
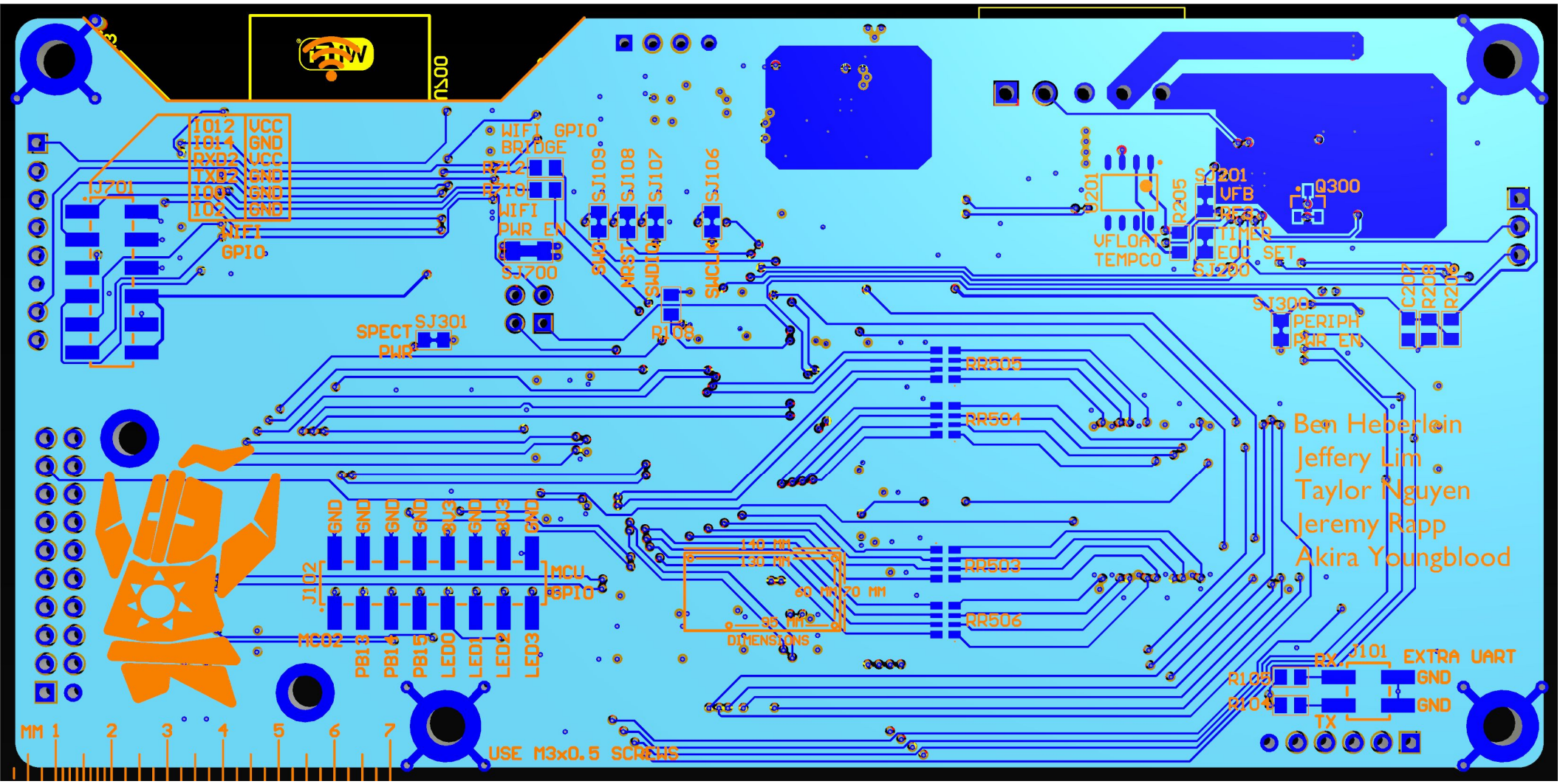

SOLENS
by FLUFFY LOGIC
PV PANEL IN: 10V - 32V
USE 6V SLA BATTERY, >4AH
ADJ VR200 FOR 2.8V @ VINFB
PV/BAT CONN IS 3.5MM PHEONIX
OV5642
140 x 70 MM (5512 x 2756 MIL)
RESET
SW101
SW100
BTN0
DEBUG
TX RX
GND PV GND NTC BAT
VBI
VBAT
VFB
VINFB
VIN SET
SHDN_EN
CHRG
FAULT
SDA
SCL
ALERT
TX
RX
MTGH1
MTGH2
MTGH3
MTGH4
SWD
UART BRIDGE
SPECT0 SPECT1
WIFI PROG
DTR
RX
TX
RESET
GND
RTS
PWDN
D2
D3
D4
D5
D6
D7
D8
D9
XCLK
PCLK
HREF
VSYNC
SDA
SCL
GND
VCC
LED0
3V3


IO12 VCC
IO14 GND
RXD2 VCC
TXD2 GND
IO0 GND
IO2 GND
WIFI GPIO
J701
WIFI GPIO BRIDGE
R712
R710
WIFI PWR EN
SJ700
SJ109
SJ108
SJ107
SJ106
SWO
NRST
SWDIO
SWCLK
R108
SPECT PWR
SJ301
U201
VFLOAT
TEMPCO
R205
SJ201
VFB
RF3
TIMER
EOC SET
SJ200
Q300
SJ300
PERIPH
PWR EN
C207
R208
R206
RR505
RR504
RR503
RR506
Ben Heberlein
Jeffery Lim
Taylor Nguyen
Jeremy Rapp
Akira Youngblood
GND GND GND GND 3V3 GND 3V3 GND
J102
MCU GPIO
MCO2 PB13 PB14 PB15 LED0 LED1 LED2 LED3
140 MM
130 MM
60 MM
70 MM
95 MM
DIMENSIONS
R105
R104
RX.
J101
EXTRA UART
GND
GND
TX
MM 1 2 3 4 5 6 7
USE M3x0.5 SCREWS


SOLENS
by FLUFFY LOGIC
ESP-12-E
OV5642
PV PANEL IN: 10V - 32V
USE 6V SLA BATTERY, >4AH
ADJ VR200 FOR 2.8V @ VINFB
PV/BAT CONN IS 3.5MM PHEONIX
140 x 70 MM (5512 x 2756 MIL)


J701
IO12
IO14
RXD2
TXD2
IO0
IO2
VCC
GND
VCC
GND
GND
GND
WIFI GPIO
WIFI GPIO BRIDGE
R212
R210
WIFI PWR EN
SJ700
SJ109
SJ108
SJ107
SJ106
NRST
SWDIO
SWCLK
R108
SPECT PWR
SJ301
J102
GND
GND
GND
GND
3V3
GND
3V3
GND
MCU GPIO
MC02
PB13
PB14
PB15
LED0
LED1
LED2
LED3
RR505
RR504
RR503
RR506
DIMENSIONS
J201
VFLOAT TEMPCO
R205
SJ201
VFB
TIMER
EOC SET
SJ200
Q300
SJ300
PERIPH PWR EN
C208
R208
R209
J101
EXTRA UART
RX
TX
GND
GND
R106
R104
MM 1 2 3 4 5 6 7
USE M3x0.5 SCREWS
Ben Heberlein
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