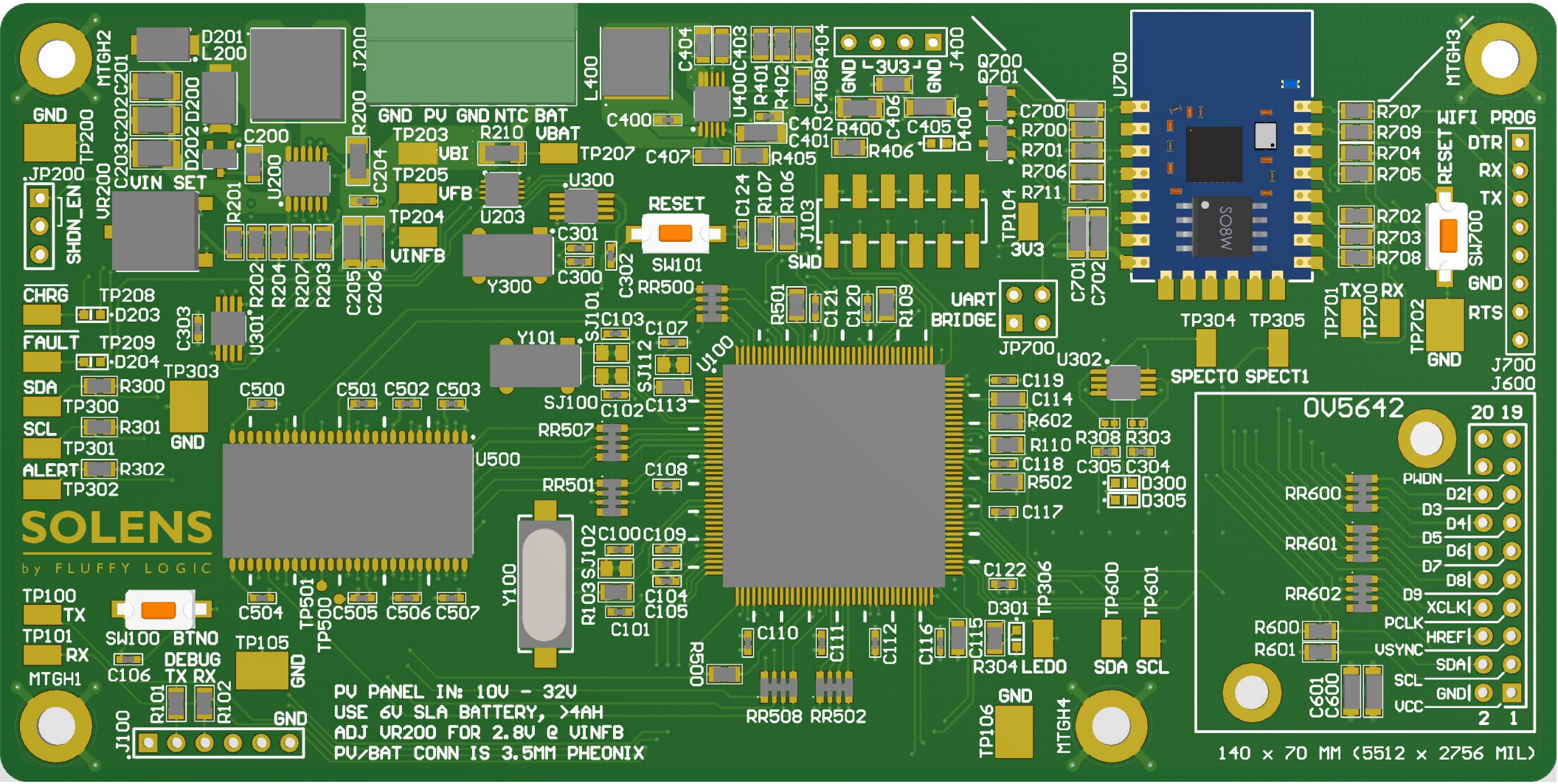
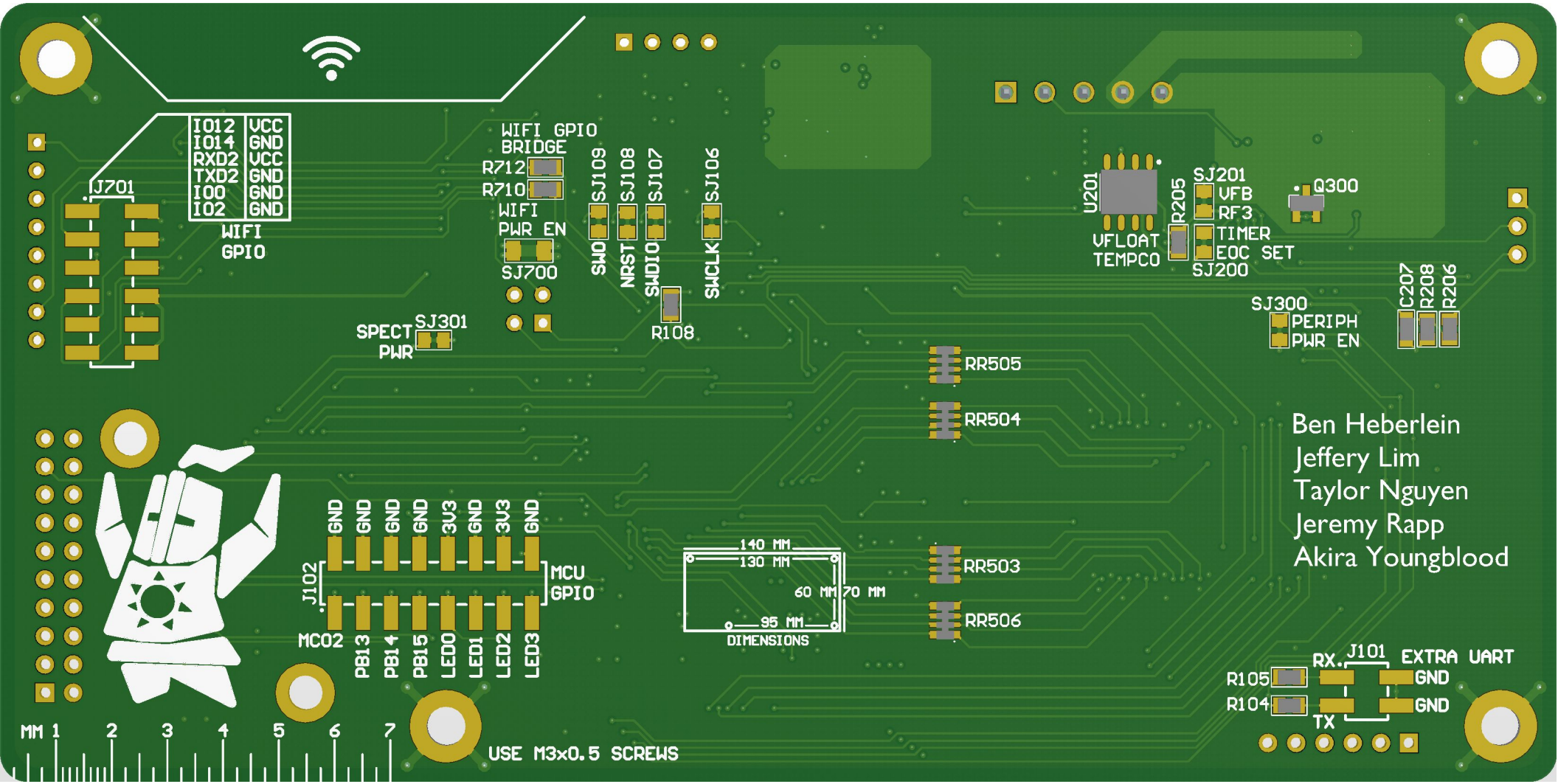
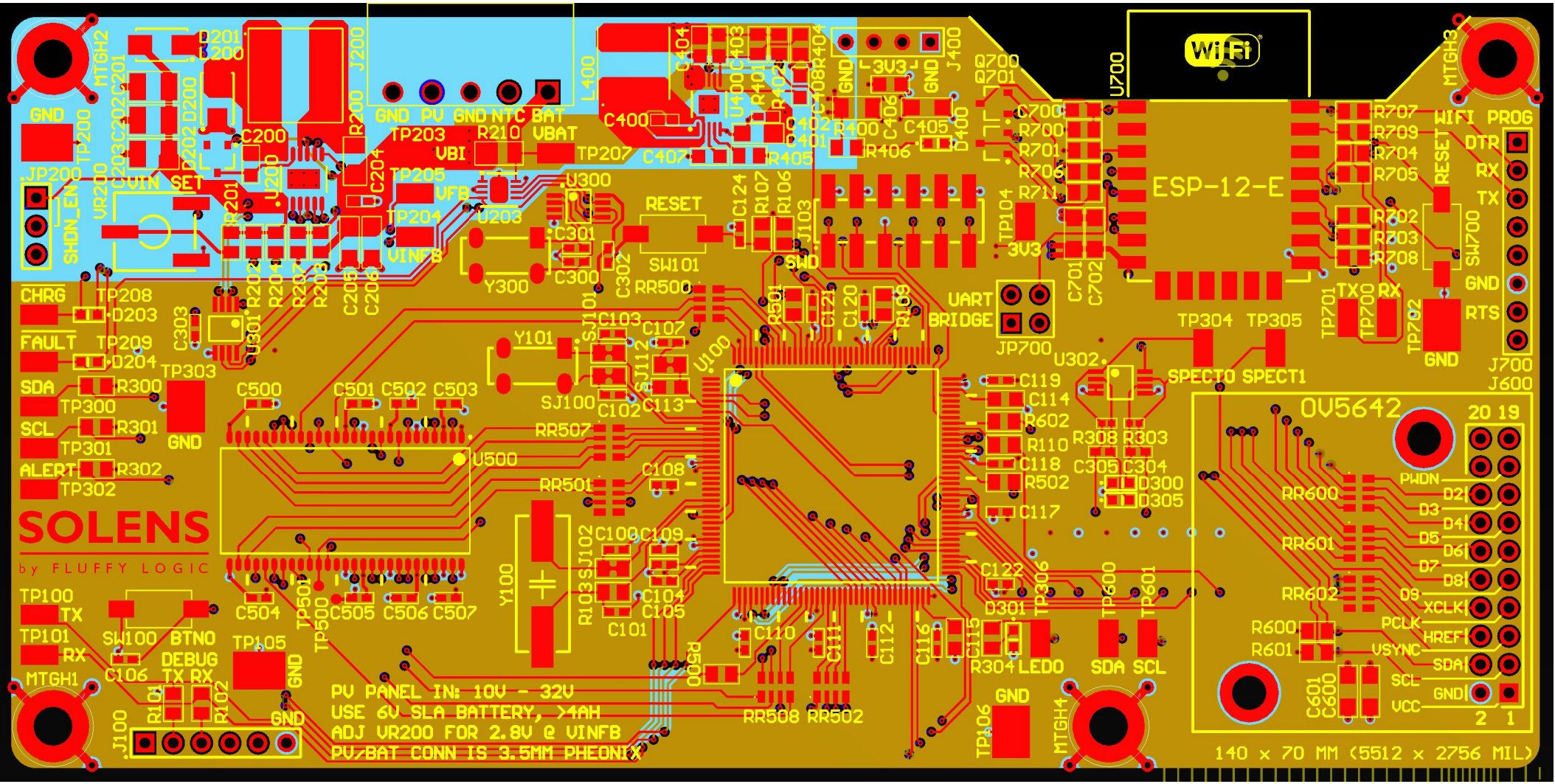
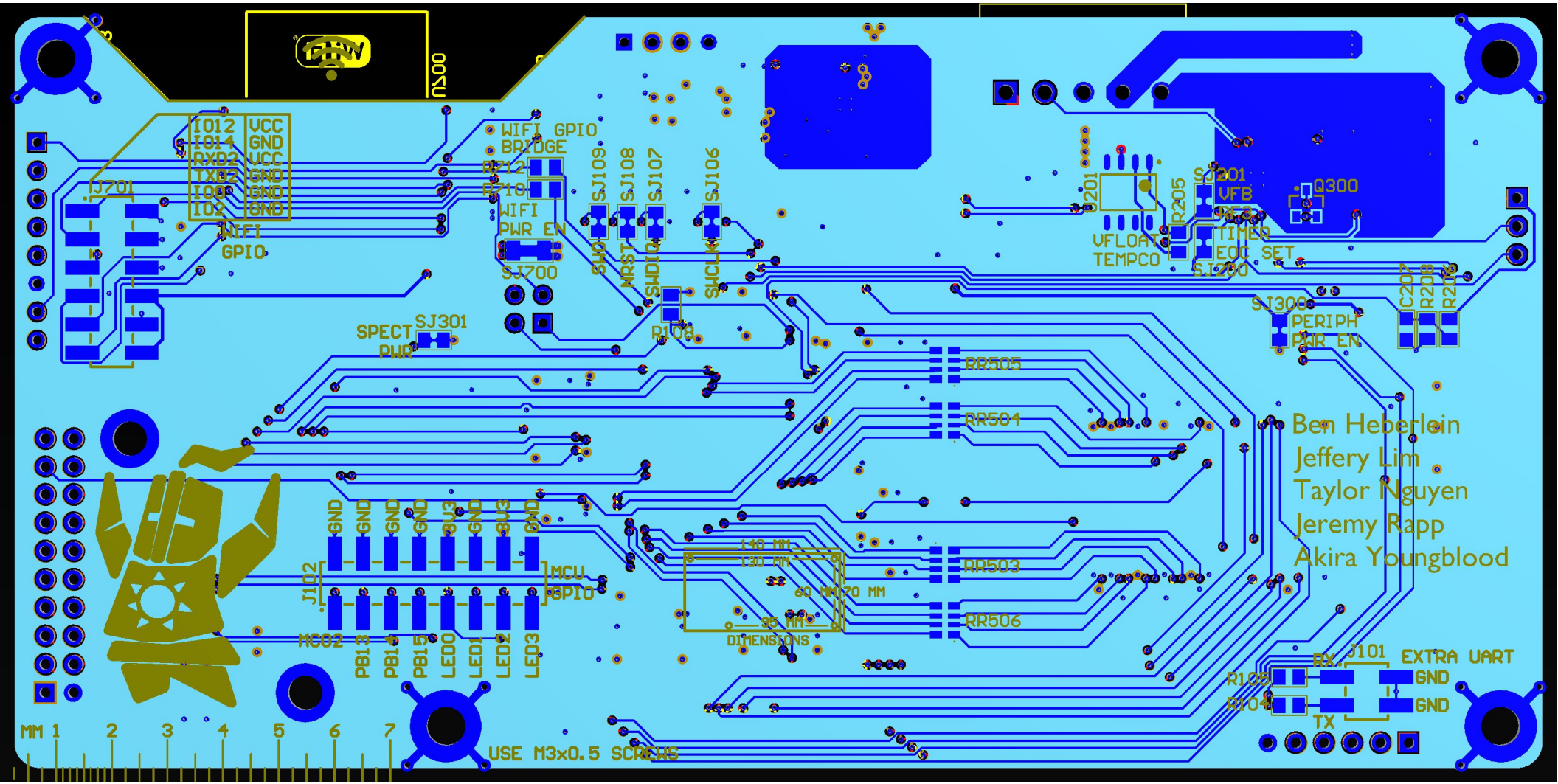

SOLENS
by FLUFFY LOGIC
PV PANEL IN: 10V - 32V
USE 6V SLA BATTERY, >4AH
ADJ VR200 FOR 2.8V @ VINFB
PV/BAT CONN IS 3.5MM PHEONIX
OV5642
140 x 70 MM (5512 x 2756 MIL)
GND PV GND NTC BAT
VIN SET
SHDN_EN
CHRG
FAULT
SDA
SCL
ALERT
TX
RX
MTGH1
MTGH2
MTGH3
MTGH4
RESET
SW101
SW100
BTNO
DEBUG
TX RX
SWD
UART BRIDGE
SPECT0 SPECT1
WIFI PROG
DTR
RX
TX
RTS
GND
3V3
LED0
PWDN
D2
D3
D4
D5
D6
D7
D8
D9
XCLK
PCLK
HREF
VSYNC
VCC
20 19
2 1


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
SWD
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 VCC
IO14 GND
RXD2 VCC
TXD2 GND
IO0 GND
IO2 GND
WIFI GPIO
WIFI GPIO BRIDGE
R712
R710
WIFI PWR EN
SJ700
SJ109
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MCU GPIO
MCO2
PB13
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PB15
LED0
LED1
LED2
LED3
148 MM
130 MM
60 MM
70 MM
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DIMENSIONS
J101
EXTRA UART
RX
TX
R102
R104
MM 1 2 3 4 5 6 7
USE M3x0.5 SCREWS
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