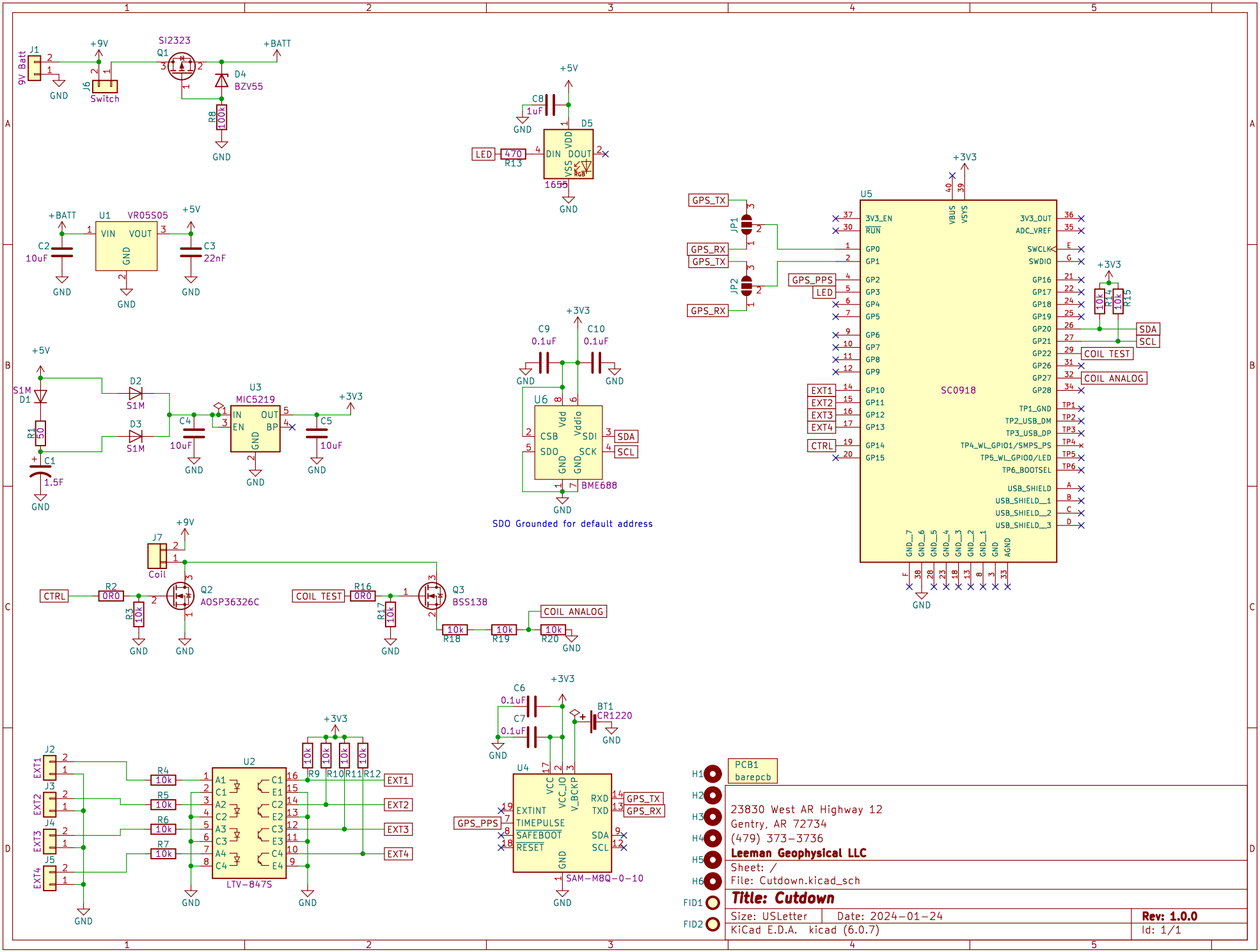
J1
9V Batt
GND
+9V
J6
Switch
SI2323
Q1
+BATT
D4
BZV55
R8
100k
GND
+5V
C8
1uF
GND
D5
LED
470
R13
DIN
DOUT
VDD
VSS
RGB
1655
GND
+BATT
U1
VR05S05
VIN
VOUT
GND
C2
10uF
C3
22nF
+5V
GND
+5V
S1M
D1
R1
50
C1
1.5F
D2
S1M
D3
S1M
C4
10uF
U3
MIC5219
IN
EN
OUT
BP
GND
C5
10uF
+3V3
GND
+3V3
C9
0.1uF
C10
0.1uF
U6
CSB
SDO
Vdd
Vddio
SDI
SCK
SDA
SCL
BME688
SDO Grounded for default address
J7
Coil
+9V
CTRL
R2
0R0
R3
10k
Q2
AOSP36326C
COIL TEST
R16
0R0
R17
10k
Q3
BSS138
10k
R18
10k
R19
10k
R20
COIL ANALOG
GND
J2
EXT1
J3
EXT2
J4
EXT3
J5
EXT4
R4
10k
R5
10k
R6
10k
R7
10k
U2
LTV-847S
+3V3
R9
R10
R11
R12
EXT1
EXT2
EXT3
EXT4
C6
0.1uF
C7
0.1uF
BT1
CR1220
U4
EXTINT
TIMEPULSE
SAFEBOOT
RESET
VCC
VCC_IO
V_BCKP
RXD
TXD
SDA
SCL
GPS_PPS
GPS_TX
GPS_RX
SAM-M8Q-0-10
U5
SC0918
3V3_EN
RUN
GP0
GP1
GP2
GP3
GP4
GP5
GP6
GP7
GP8
GP9
GP10
GP11
GP12
GP13
GP14
GP15
3V3_OUT
ADC_VREF
SWCLK
SWDIO
GP16
GP17
GP18
GP19
GP20
GP21
GP22
GP26
GP27
GP28
TP1_GND
TP2_USB_DM
TP3_USB_DP
TP4_WL_GPIO1/SMPS_PS
TP5_WL_GPIO0/LED
TP6_BOOTSEL
USB_SHIELD
USB_SHIELD__1
USB_SHIELD__2
USB_SHIELD__3
VBUS
VSYS
GND__7
GND__6
GND__5
GND__4
GND__3
GND__2
GND__1
GND
AGND
JP1
JP2
EXT1
EXT2
EXT3
EXT4
CTRL
R14
10k
R15
10k
H1
H2
H3
H4
H5
H6
FID1
FID2
PCB1
barepcb
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Gentry, AR 72734
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