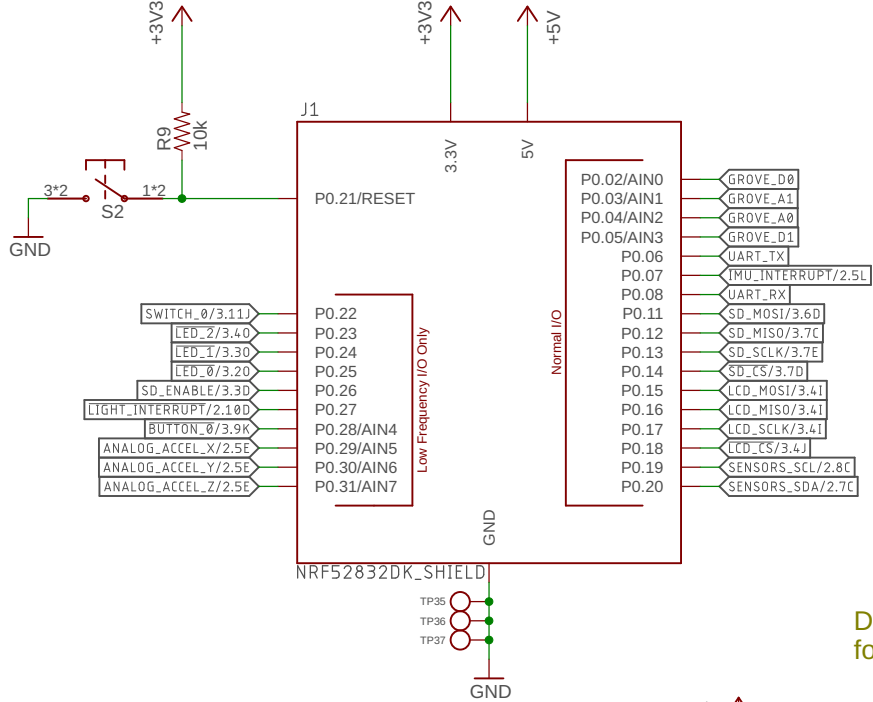
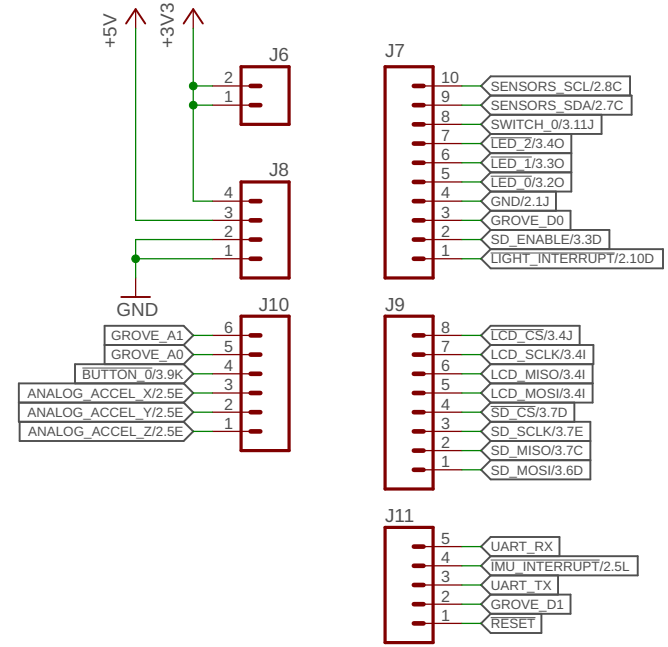


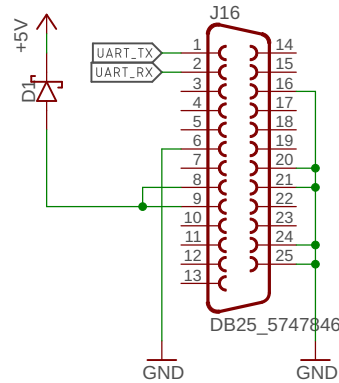
## nRF52832DK Interface



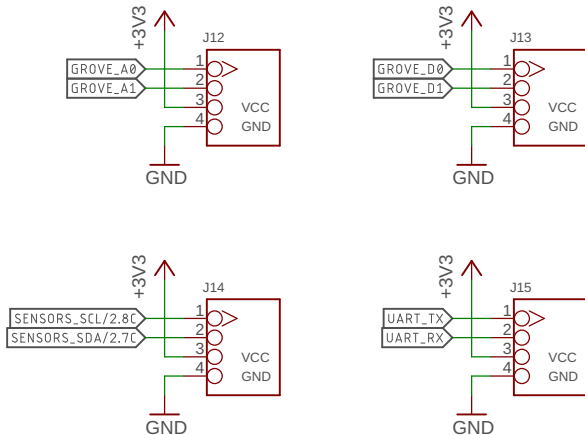
## Expansion Headers



## DB-25 Header for Kobuki

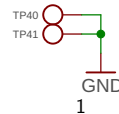


## Grove Headers



UART shared with Kobuki

## Clippable Ground Pins



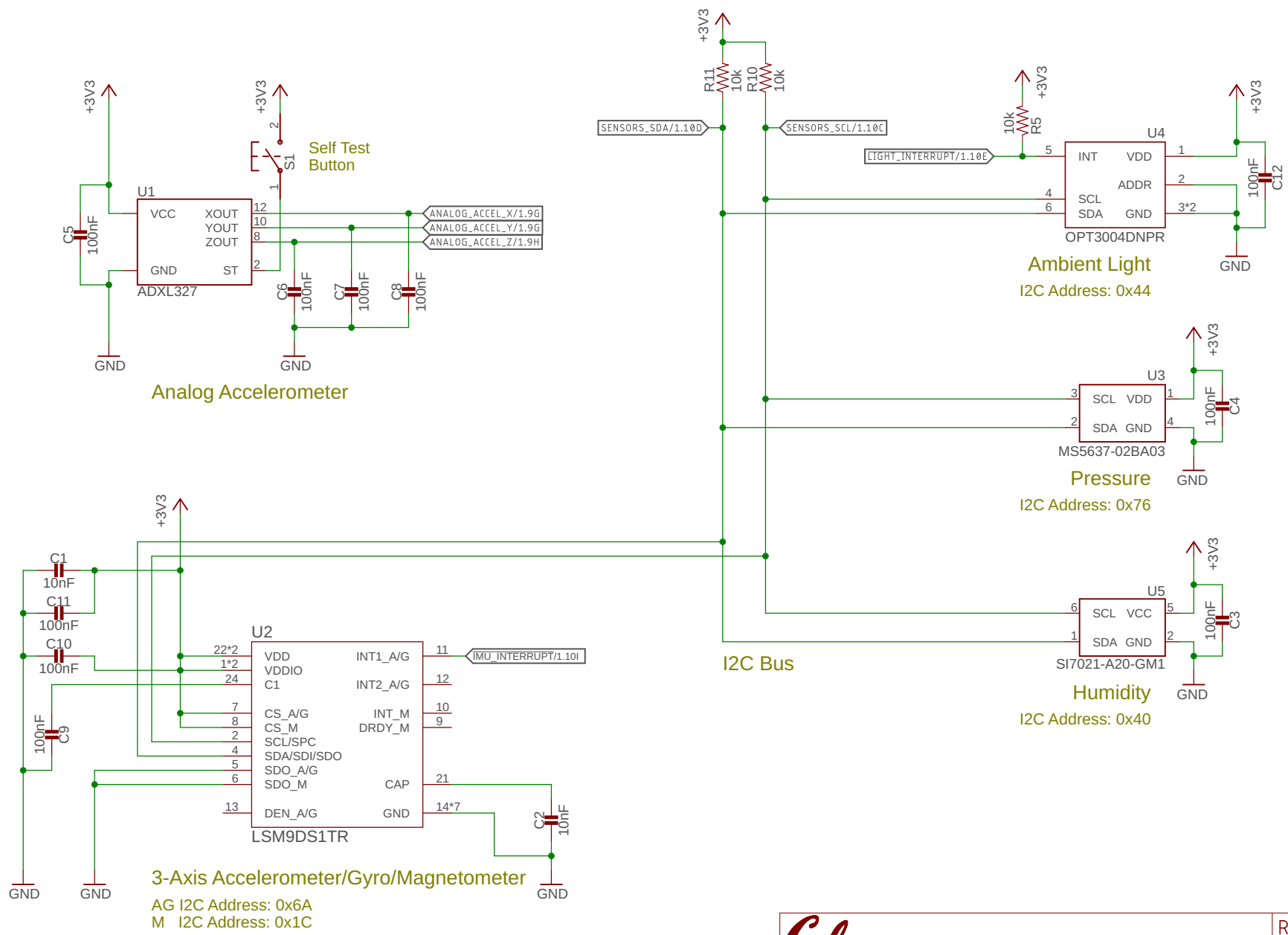
**Cal** Berkeley Buckler

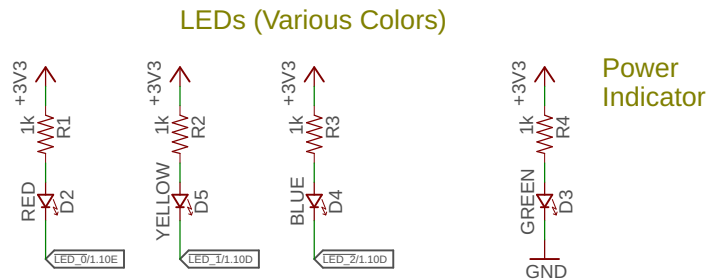
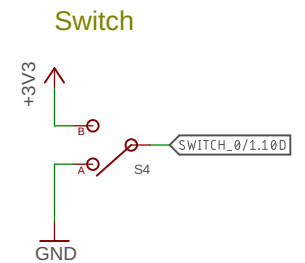
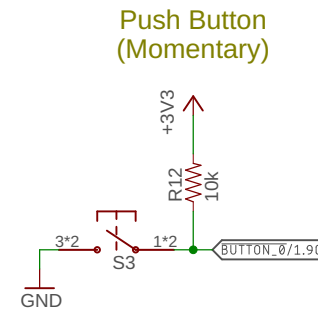
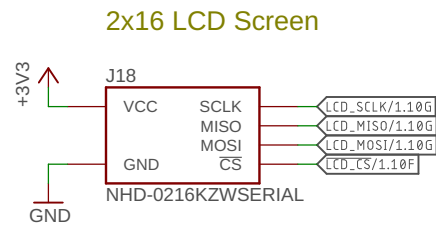
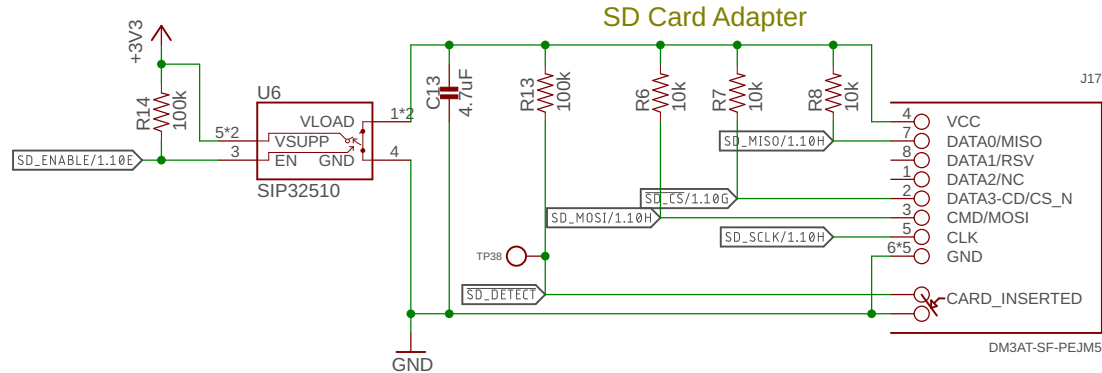
Author: Branden Ghena

Date: 8/3/20 12:46 PM

REV:  
C

Sheet: 1/3





**Cal** Berkeley Buckler

Author: Branden Ghena

Date: 8/3/20 12:46 PM

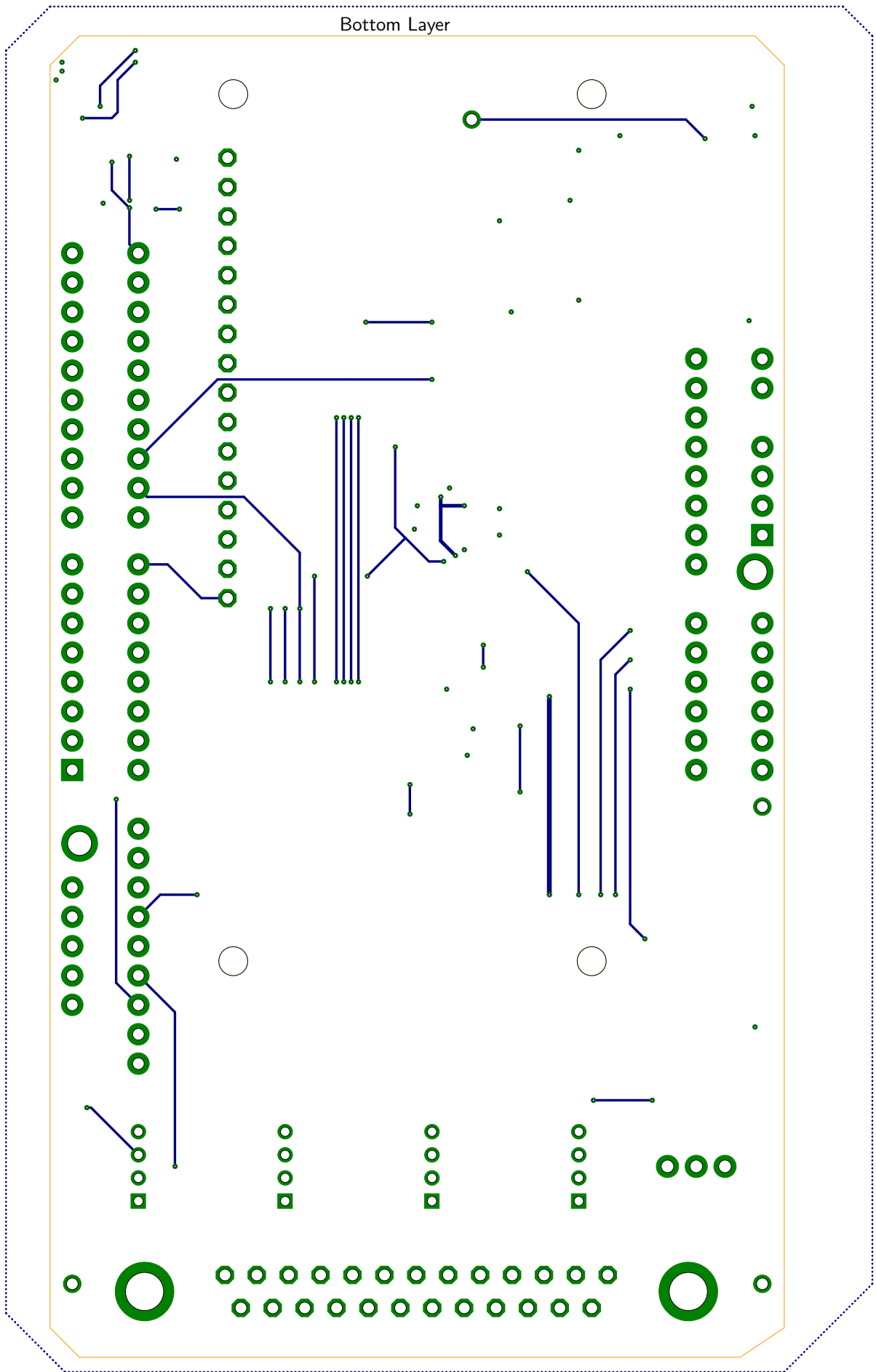
REV:  
C

Sheet: 3/3

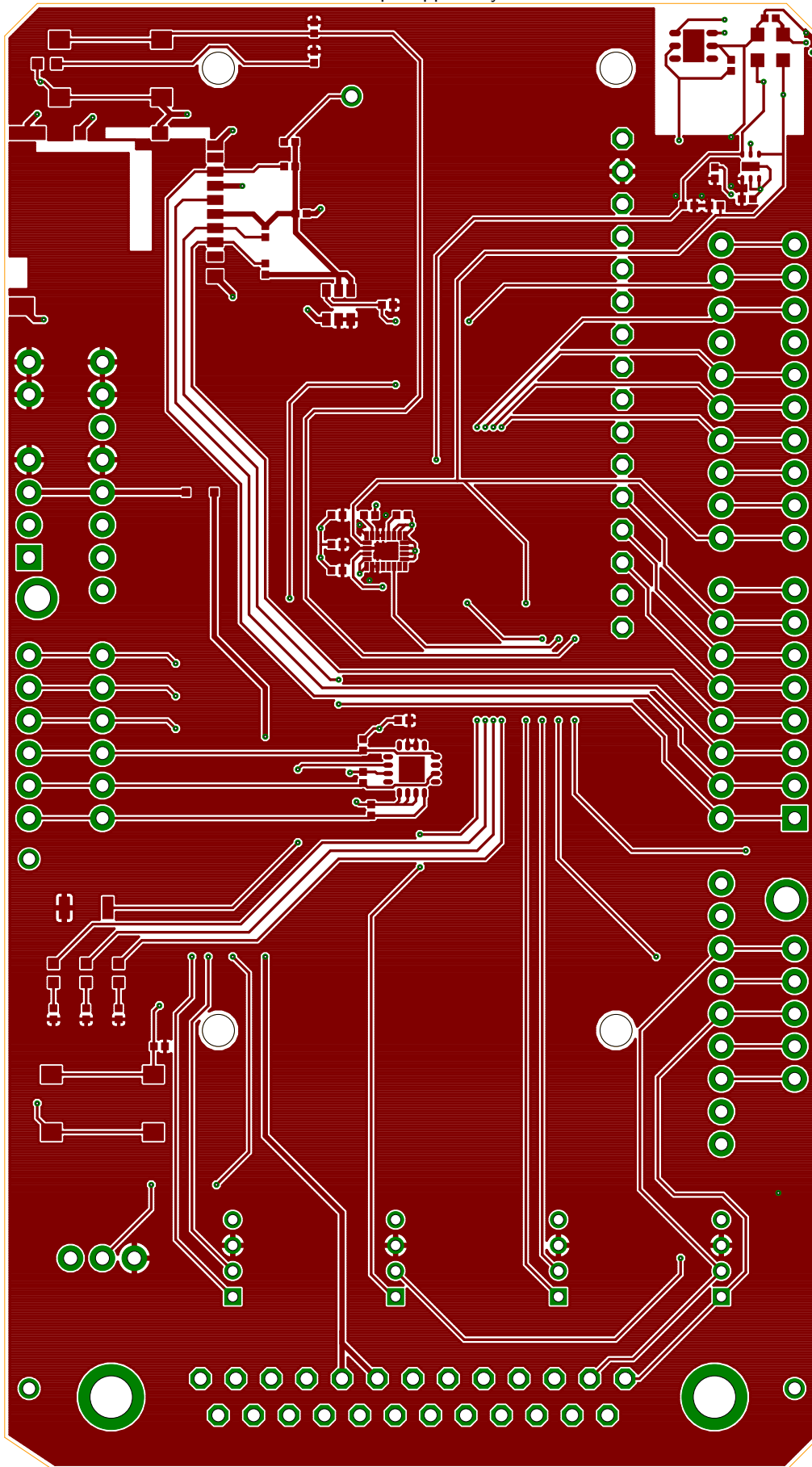




Bottom Layer



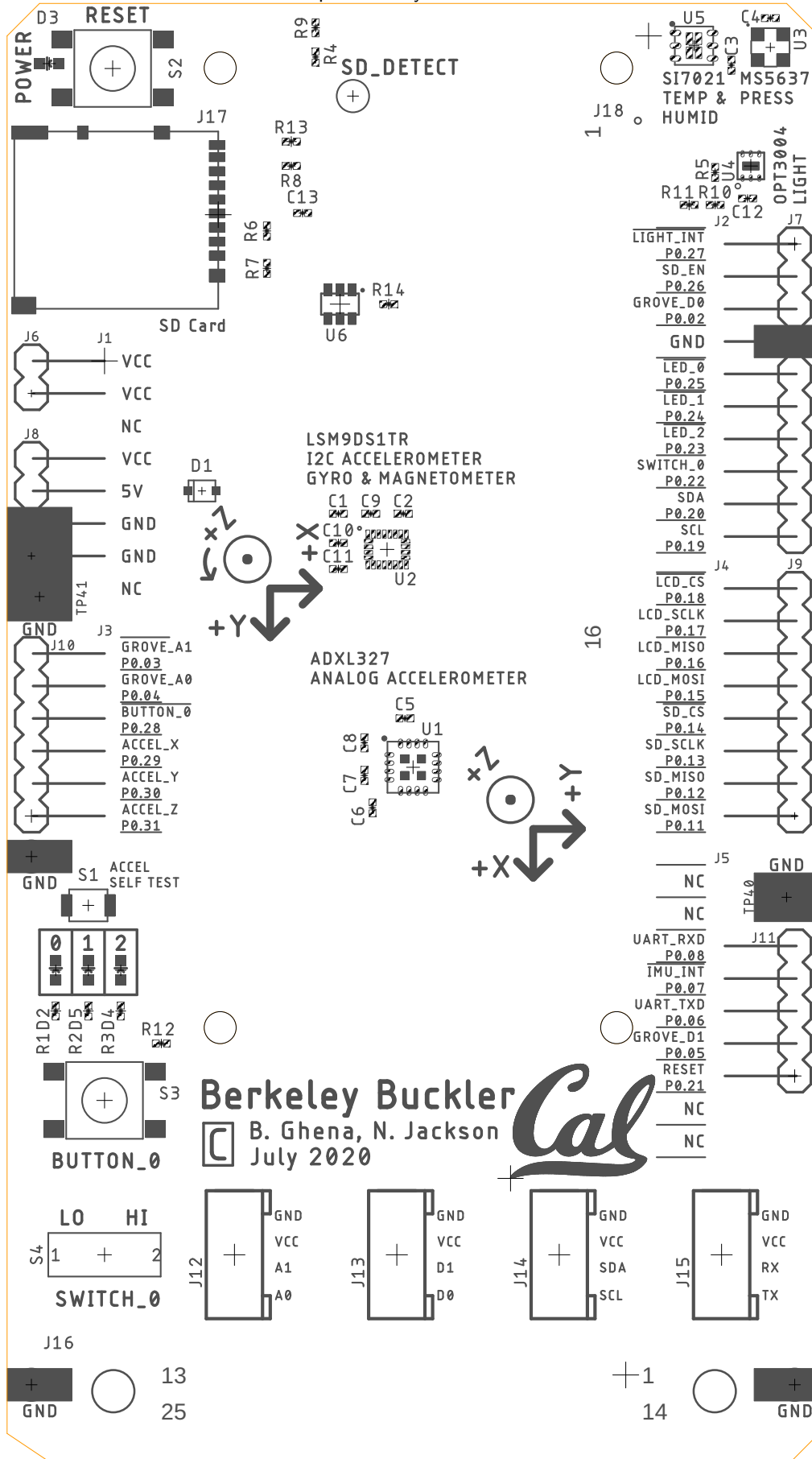
Top Copper Layer







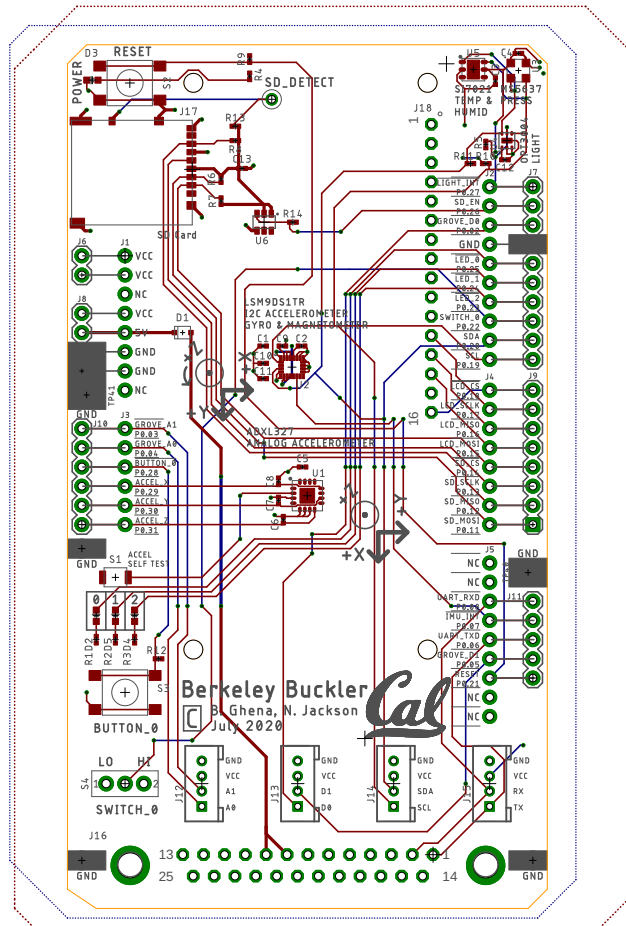
# Top Paste Layer with Silkscreen



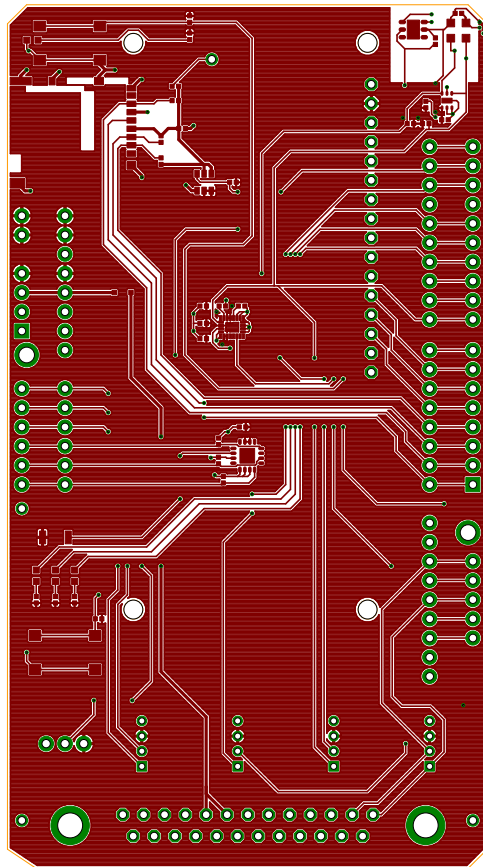
Bottom Paste Layer with Silkscreen



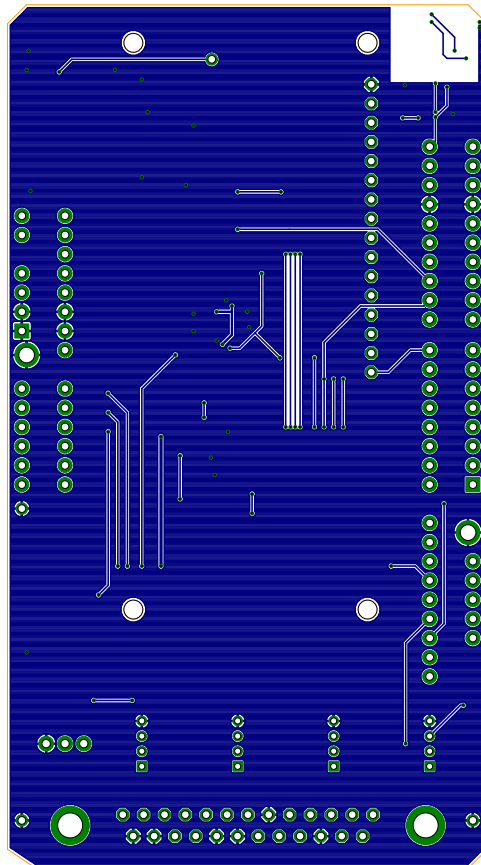
Top and Bottom Layers 1:1 Scale



Top Layer 1:1 Scale



Bottom Copper Layer 1:1 Scale



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Qty	Value	Device	Package
1		DIODE_SCHOTTKYSOD323	SOD323
4		GROVE-CONNECTOR-DIP(4P-2.0)	HW4-2.0
1		M02PTH	1X02
1		M04PTH	1X04
1		M05PTH	1X05
2		M06SIP	1X06
3		M081X08	1X08
1		M09PTH	1X09
2	M10	M10	M10
2	100k	RESISTOR0402_RES	0402_RES
10	100nF	CAPACITOR0402_CAP	0402_CAP
8	10k	RESISTOR0402_RES	0402_RES
2	10nF	CAPACITOR0402_CAP	0402_CAP
4	1k	RESISTOR0402_RES	0402_RES
1	4.7uF	CAPACITOR0402_CAP	0402_CAP
1	ADXL327	ADXL327	LFCSP-16
1	B3U-1000P	B3U-1000P	B3U-1000P
1	BLUE	LED0603	LED-0603
1	DB25_5747846	DB25_5747846	DB25_5747846
1	DM3AT-SF-PEJM5	DM3AT-SF-PEJM5	DM3AT-SF-PEJM5
1	GREEN	LED0603	LED-0603
1	LSM9DS1TR	LSM9DS1TR	LGA-24_3X3P5X1_STM
1	MS5637-02BA03	MS5637-02BA03	4-SMD
1	NHD-0216KZWSERIAL	NHD-0216KZWSERIAL	NHD-0216KZW
1	OPT3004DNPR	OPT3004DNPR	DNP0006A
2	PTS645SM43SMTR92	PTS645SM43SMTR92	PTS645
1	RED	LED0603	LED-0603
1	SI7021-A20-GM1	SI7021-A20-GM1	DFN-6/3MM
1	SIP32510	SIP32510	TSOT23-6
2	TEST_POINT_0.078IN	TEST_POINT_0.078IN	TESTPOINT_0.078IN
1	TE_SSA12/SPDT	TE_SSA12/SPDT	TE_SSA12/SPDT
1	YELLOW	LED0603	LED-0603

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Parts	Description	
D1		
J12, J13, J14, J15		320110033
J6	Header 2	
J8	Header 4	
J11	Header 5	
J3, J10	Header 6	
J1, J4, J9	Header 8	
J5	Header 9	
J2, J7	Header 10	
R13, R14	Resistor	
C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	SMD Capacitor	
R5, R6, R7, R8, R9, R10, R11, R12	Resistor	
C1, C2	SMD Capacitor	
R1, R2, R3, R4	Resistor	
C13	SMD Capacitor	
U1	ADXL327 3-Axis Analog Accelerometer	
S1	Switch	
D4	LED	
J16		
J17	CONN MICRO SD R/A PUSH-PUSH SMD	
D3	LED	
U2		
U3	low power pressure sensor	
J18		
U4		
S2, S3	Tactile Switch SPST-NO Top Actuated Surface Mount	
D2	LED	
U5	IC TEMP SENSOR RH 2% DFN	
U6	Load switch, slew rate controlled. By Vishay	
TP40, TP41		
S4	SWITCH SLIDE SPDT 2POS SSA SER	
D5	LED	

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DESCRIPTION	DIGIKEY
DIODE SCHOTTKY 30V 500MA SCB0530WS-FDICT-ND	
Grove - Universal 4 pin connector	
	S1011EC-02-ND
	S1011EC-04-ND
	S1011EC-05-ND
	S1011EC-06-ND
	S1011EC-08-ND
	S1011EC-09-ND
	S1011EC-10-ND
RES SMD 100K OHM 1% 1/5W 0402 541-100KYCT-ND	
CAP CER 0.1UF 16V X7R 0402 490-4759-1-ND	
RES SMD 10K OHM 1% 1/16W 0402 1276-3431-1-ND	
CAP CER 10000PF 25V X7R 0402 399-1279-1-ND	
RES SMD 1K OHM 1% 1/16W 0402 RMCF0402FT1K00CT-ND	
CAP CER 4.7UF 10V X5R 0402 1276-1480-1-ND	
ACCELEROMETER 2G ANALOG 1ADXL327BCPZ-ND	
SWITCH TACTILE SPST-NO 0.05ASW1020CT-ND	
LED BLUE CLEAR SMD 160-1837-1-ND	
CONN D-SUB RCPT 25POS R/A S A32126-ND	
CONN MICRO SD CARD PUSH-PLHR1964CT-ND	
LED GREEN CLEAR CHIP SMD 160-1435-1-ND	
	497-14946-1-ND
SENSOR 17.4PSIA I2C 24B 4-QFN223-1199-1-ND	
	NHD-0216KZW-AG5-ND, 952-3305-ND
	296-53402-1-ND
SWITCH TACTILE SPST-NO 0.05ACKN9112CT-ND	
LED RED CLEAR CHIP SMD 160-1436-1-ND	
SENS HUMI/TEMP 3.6V I2C 3% 6 336-3141-ND	
IC LOAD SWITCH SOT23-6 SIP32510DT-T1-GE3CT-ND	
TERM TURRET SINGLE L=4.75MM36-1520-2-ND	
SWITCH SLIDE SPDT 100MA 30V 450-1602-ND	
LED YELLOW CLEAR CHIP SMD 160-1437-1-ND	



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MANUFACTURER	MOUSER	MPN
Diodes Incorporated		B0530WS-7-F
Seeed Studio	713-110990030	110990030

Vishay Dale		CRCW0402100KFKEDHP
Murata		GCM155R71C104KA55D
Samsung Electro-Mechanics		RC1005F103CS
KEMET		C0402C103J3RACTU
Stackpole Electronics		RMCF0402FT1K00
Samsung Electro-Mechanics		CL05A475KP5NRNC
Analog Devices Inc.		ADXL327BCPZ
Omron		B3U-1000P
Lite-On Inc.		LTST-C194TBKT
TE Connectivity AMP Connectors		5747846-4
Hirose Electric Co Ltd		DM3AT-SF-PEJM5
Lite-On Inc.		LTST-C190KGKT
		LSM9DS1TR
		MS563702BA03-50
TE CONNECTIVITY		
, 952-1862-ND		
Texas Instruments		OPT3004DNPR
C&K		PTS645SM43SMTR92 LFS
Lite-On Inc.		LTST-C190KRKT
Silicon Labs	634-SI7021-A20-GM1	SI7021-A20-GM1
Vishay		SIP32510DT-T1-GE3
Keystone Electronics		1520-2
TE Connectivity ALCOSWITCH Switches		SSA12
Lite-On Inc.		LTST-C190KSKT