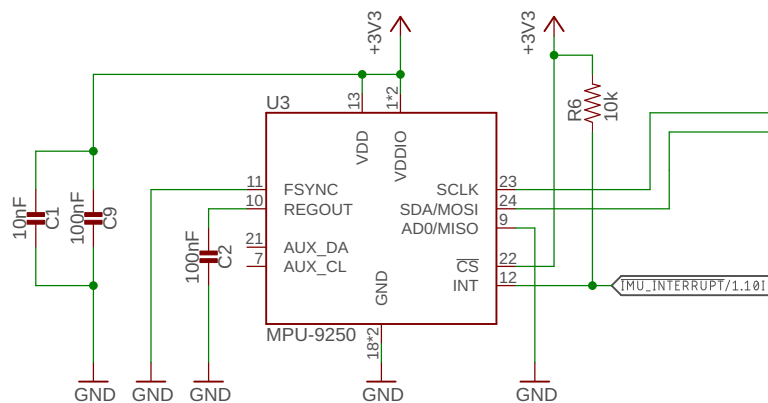
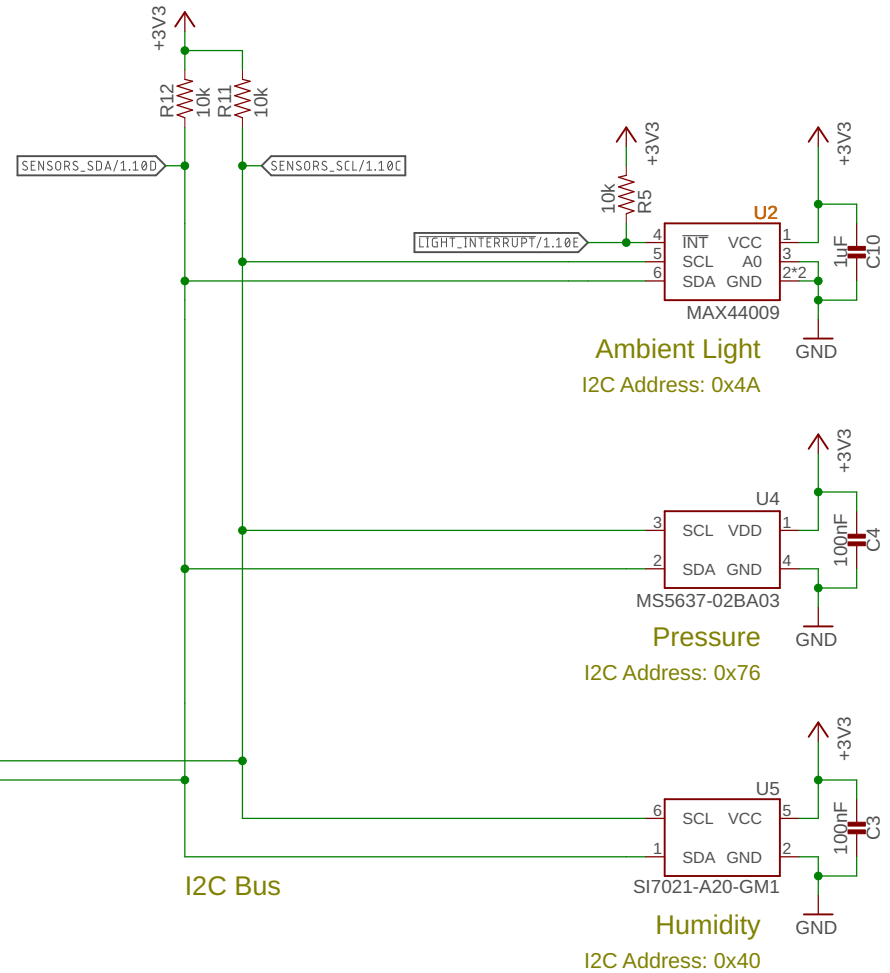


Analog Accelerometer



3-Axis Accelerometer/Gyro/Magnetometer
I2C Address: 0x68

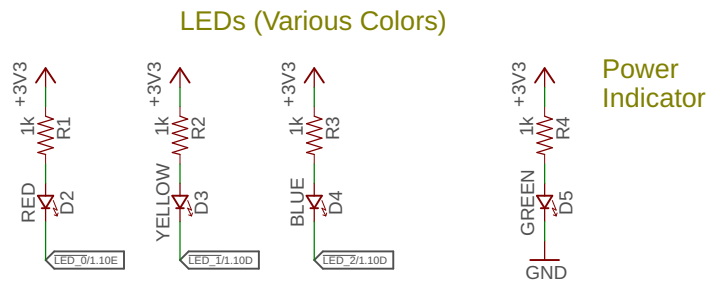
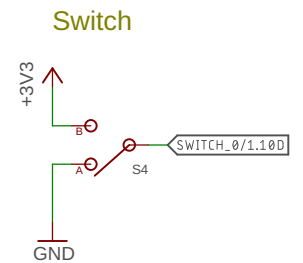
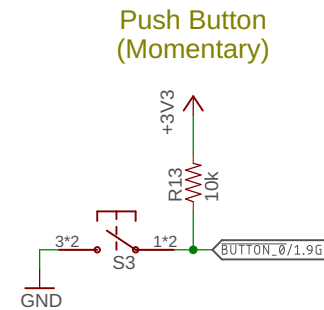
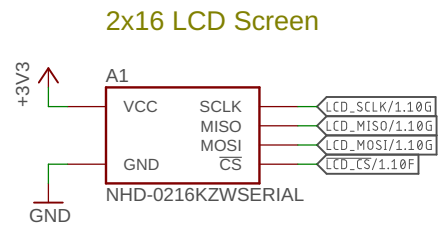
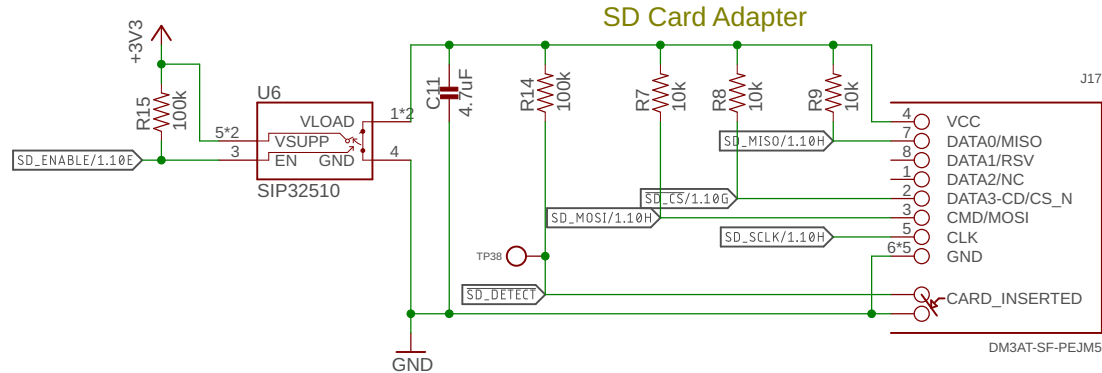


I2C Bus

Ambient Light
I2C Address: 0x4A

Pressure
I2C Address: 0x76

Humidity
I2C Address: 0x40



Cal Berkeley Buckler

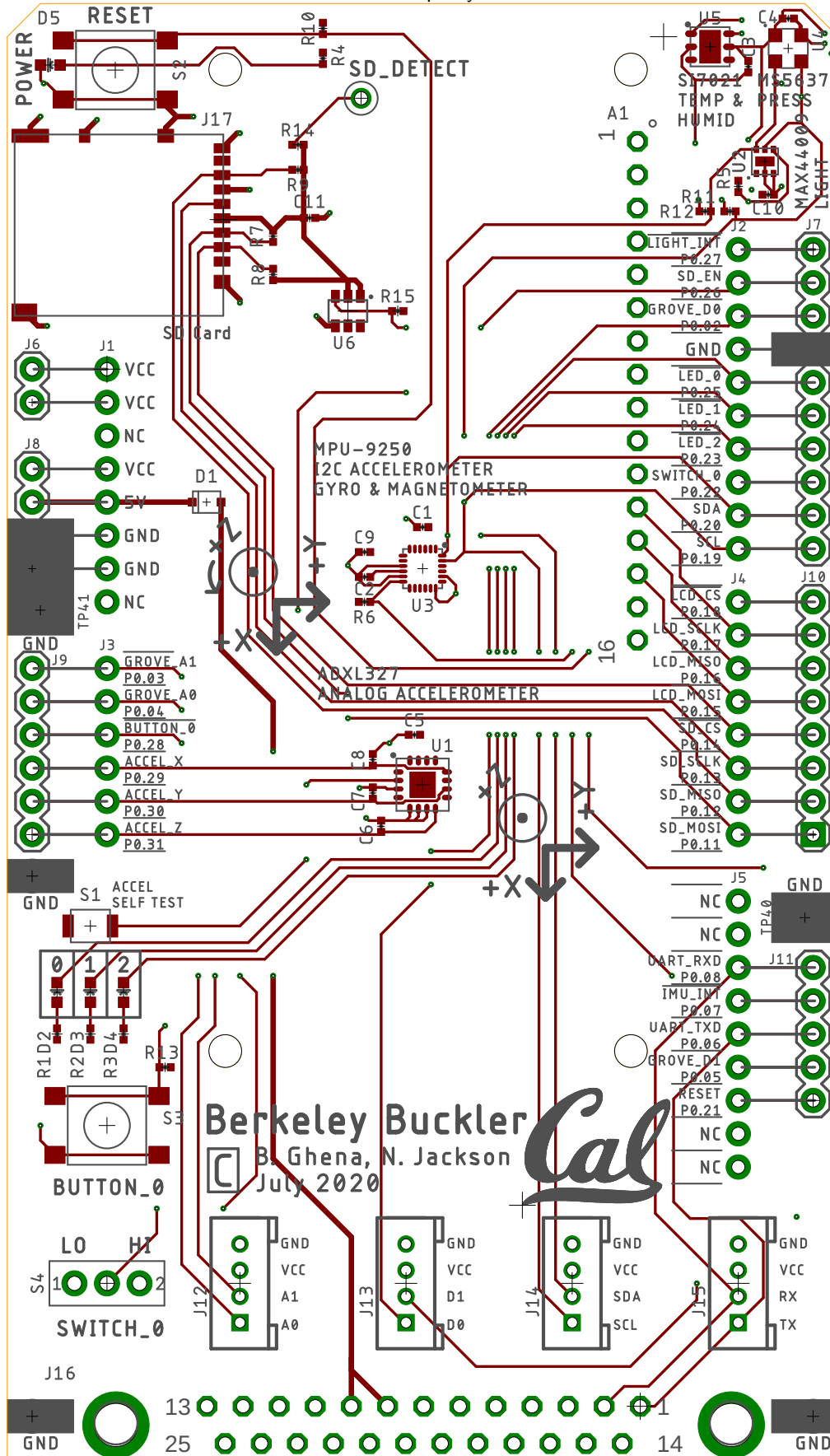
Author: Branden Ghena

Date: 7/28/20 12:04 PM

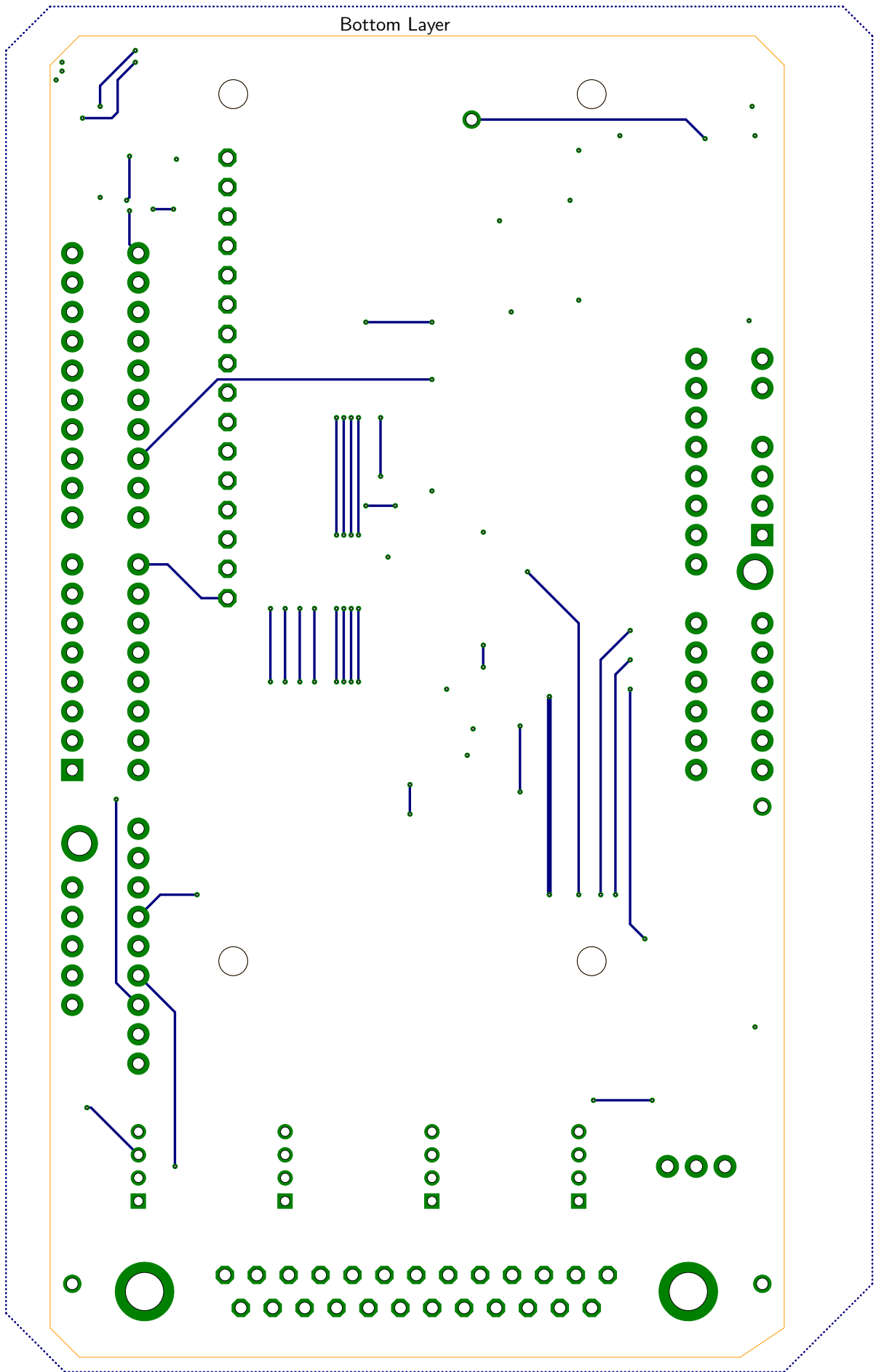
REV:
C

Sheet: 3/3

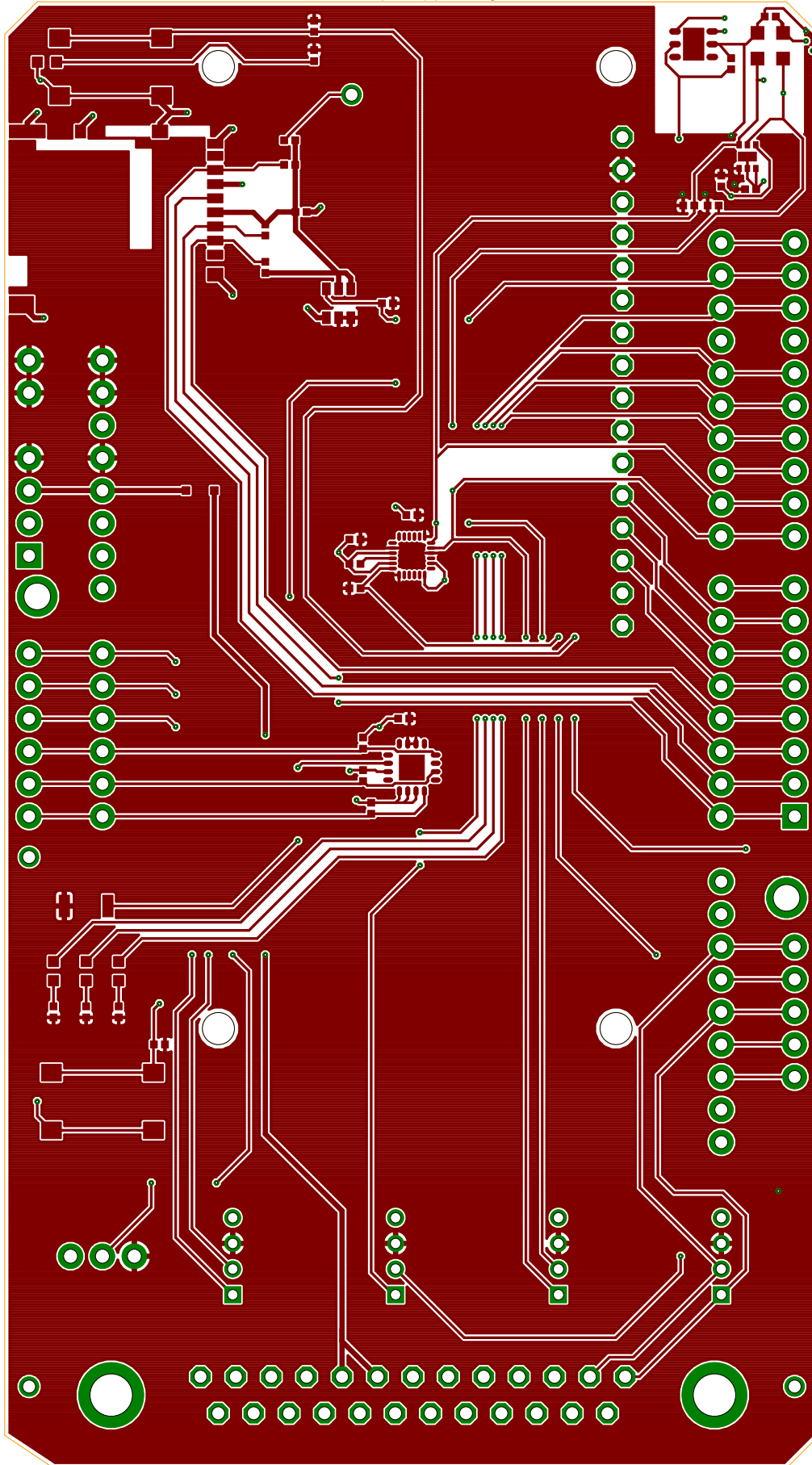
Top Layer



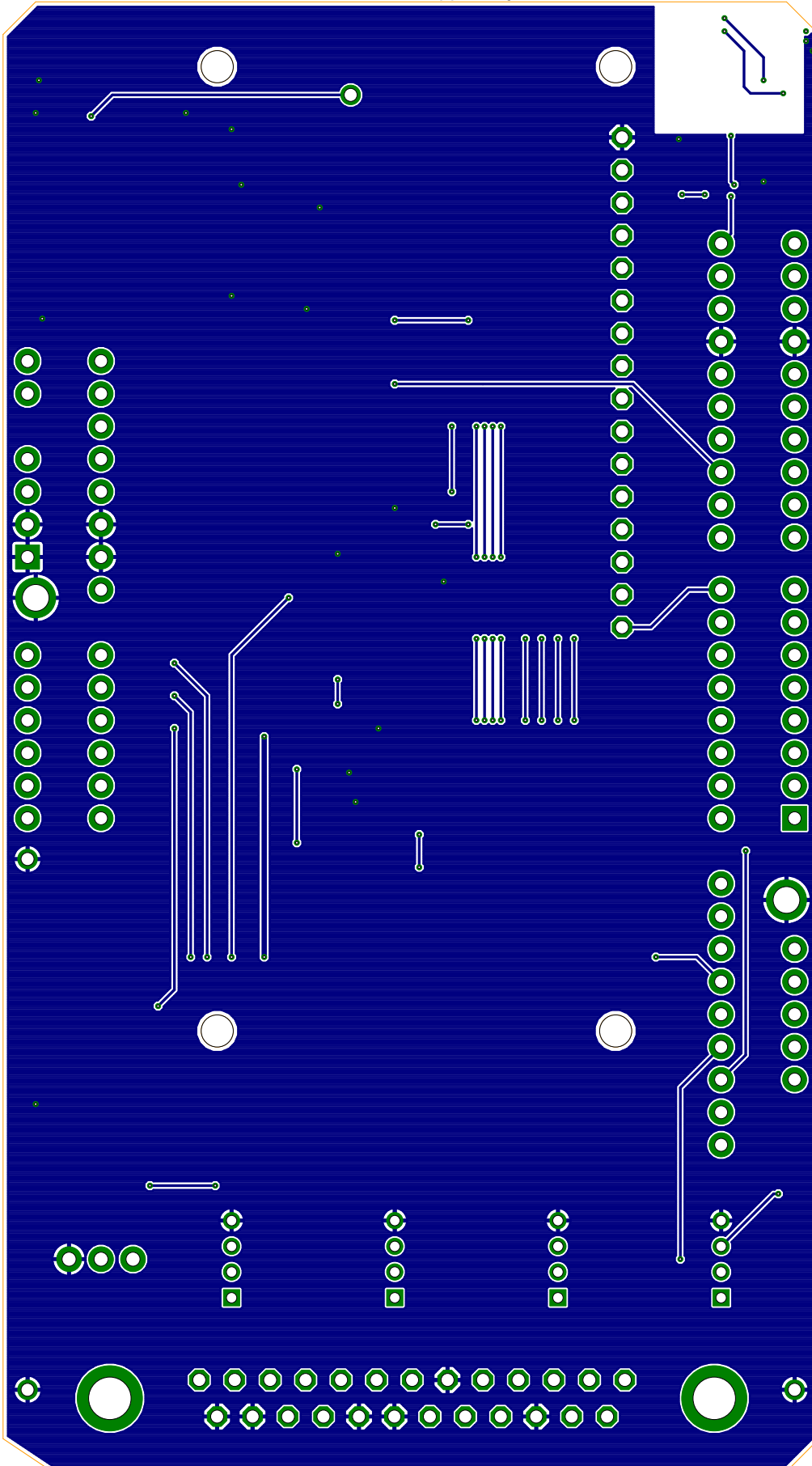
Bottom Layer



Top Copper Layer

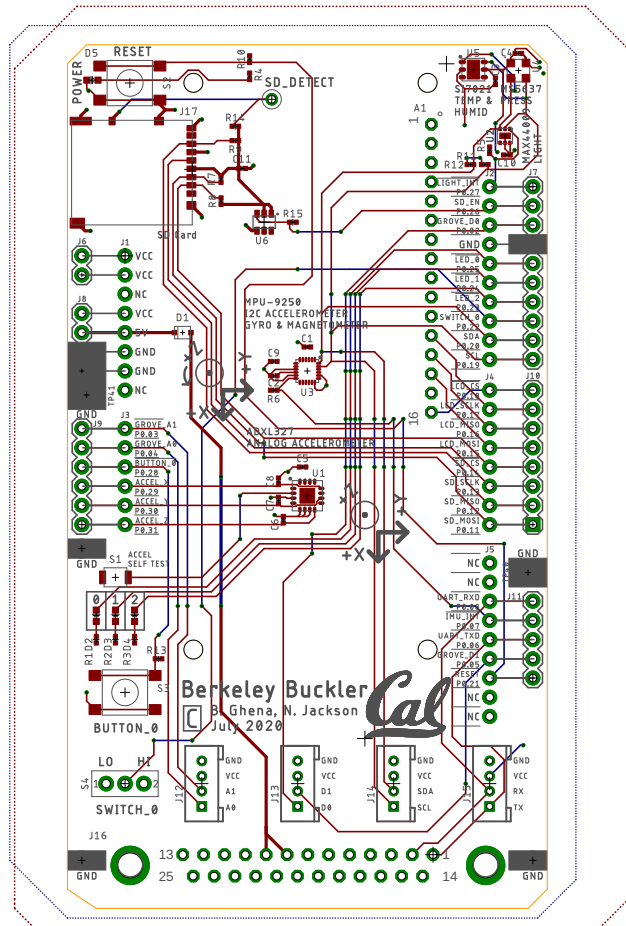


Bottom Copper Layer

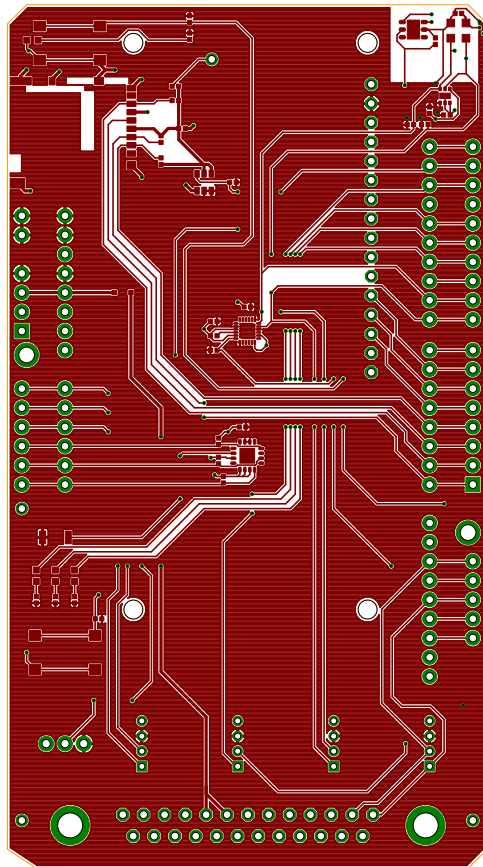




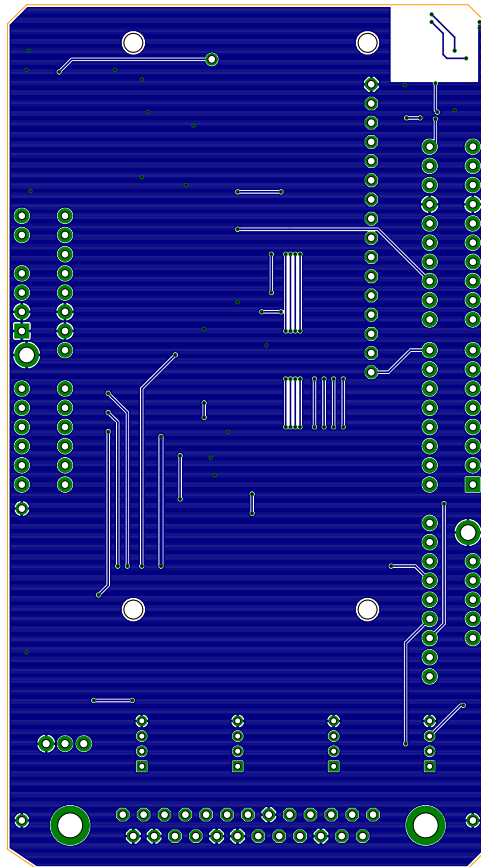
Top and Bottom Layers 1:1 Scale



Top Layer 1:1 Scale



Bottom Copper Layer 1:1 Scale



buckler

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
8	100nF	CAPACITOR0402_CAP	0402_CAP
9	10k	RESISTOR0402_RES	0402_RES
1	10nF	CAPACITOR0402_CAP	0402_CAP
4	1k	RESISTOR0402_RES	0402_RES
1	1uF	CAPACITOR0402_CAP	0402_CAP
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	MAX44009	MAX44009	UDFN-6-EXPOSED
1	MPU-9250	MPU-9250	QFN-24/3MM
1	MS5637-02BA03	MS5637-02BA03	4-SMD
1	NHD-0216KZWSERIAL	NHD-0216KZWSERIAL	NHD-0216KZW
2	PTS645SM43SMTR92	PTS645SM43SMTR92	PTS645
1	RED	LED0603	LED-0603
1	SI7021-A20-GM1	SI7021-A20-GM1	DFN-6/3MM
1	SIP32510	SIP32510	TSOT23-6
4	TEST_POINT_0.040IN	TEST_POINT_0.040IN	TESTPOINT_0.040IN
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

buckler

Parts	Description	
D1		
J12, J13, J14, J15		320110033
J6	Header 2	
J8	Header 4	
J11	Header 5	
J3, J9	Header 6	
J1, J4, J10	Header 8	
J5	Header 9	
J2, J7	Header 10	
R14, R15	Resistor	
C2, C3, C4, C5, C6, C7, C8, C9	SMD Capacitor	
R5, R6, R7, R8, R9, R10, R11, R12, R13	Resistor	
C1	SMD Capacitor	
R1, R2, R3, R4	Resistor	
C10	SMD Capacitor	
C11	SMD Capacitor	
U1	ADXL327 3-Axis Analog Accelerometer	
S1	Switch	
D4	LED	
J16		
J17	CONN MICRO SD R/A PUSH-PUSH SMD	
D5	LED	
U2	low power ambient light sensor	
U3	GYRO/ACCEL/COMPASS/9-AXIS	
U4	low power pressure sensor	
J18		
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	
TP35, TP36, TP37, TP38	0.040in Test Point	
TP40, TP41		
S4	SWITCH SLIDE SPDT 2POS SSA SER	
D3	LED	

buckler

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 1UF 10V X6S 0402	1276-6805-1-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
SENSOR AMBIENT LIGHT 6UTDF MAX44009EDT+TCT-ND	
IMU ACCEL/GYRO/MAG I2C/SPI 21428-1019-1-ND	
SENSOR 17.4PSIA I2C 24B 4-QFN223-1199-1-ND	
	NHD-0216KZW-AG5-ND, 952-3305-ND, 952-1862-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
	5001K-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

buckler

MANUFACTURER	MOUSER	MPN	VALUE
Diodes Incorporated		B0530WS-7-F	
Seeed Studio	713-110990030		110990030 4P-2.0

Vishay Dale		CRCW0402100KFKEDHP
Murata		GCM155R71C104KA55D
Samsung Electro-Mechanics		RC1005F103CS
KEMET		C0402C103J3RACTU
Stackpole Electronics		RMCF0402FT1K00
Samsung Electro-Mechanics		CL05X105KP5NNNC
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
Maxim Integrated		MAX44009EDT+T
TDK InvenSense		MPU-9250
TE CONNECTIVITY		MS563702BA03-50
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