name	ID	BCN Stock	Status	STUDENTS ADDITION (add on how many you have used to this number)	NOTES
Phototransistor 940nm Top View 1206 IR	1080-1379-1-ND	50		0	
Phototransistor 940nm Top View 1206 visible	1080-1380-1-ND	47		1	
CONN HEADER 36POS .100 R/A SMD	1528-1093-ND	0		32	
LED RED CLEAR 1206 SMD	160-1167-1-ND	592		13	
LED RED CLEAR 1206 SMD	160-1167-1-ND	575		29	
LED GREEN CLEAR 1206 SMD	160-1169-1-ND	500		35	
PANASSE JR. UNIVERSAL VISE-	2019PV-ND	1		0	
THERMISTOR NTC 10K OHM 10% 1206	235-1109-1-ND	22		1	
Single side circuit board stock	3"x2" Single=16x20=320/sheet	500		0	
RES 0.0 OHM 1/4W 5% 1206 SMD	311-0.0ERCT-ND	1031		74	
RES 1.60K OHM 1/4W 1% 1206 SMD	311-1.00KFRCT-ND	65		30	
RES 1.00M OHM 1/4W 1% 1206 SMD-	311-1.00MFRCT-ND	290		8	
RES 10.0K OHM 1/4W 1% 1206 SMD	311-10.0KFRCT-ND	560		72	
RES 100 OHM 1/4W 1% 1206 SMD	311-100FRCT-ND	1500		32	
RES 100K OHM 1/4W 1% 1206 SMD	311-100KFRCT-ND	297		1	
CAP CER 8PF 50V NPO 0805	311-1097-1-ND	50		0	
CAP CERAMIC 10PF 50V NPO 1206	311-1155-1-ND	280		33	
CAP CER 18PF 50V 5% NPO 1206	311-1152-1-ND	95		4	
CAP CER 18PF 50V NPO 1206	311-1152-1-ND	156		0	
CAP CER 22UF 6.3V X5R 0603	311-1815-1-ND	50		6	
RES SMD 22 OHM 1% 1/4W 1206	311-22.0FRCT-ND	196		6	
RES 49.9 OHM 1/4W 1% 1206 SMD	311-49.9FRCT-ND	320		3	
RES 499 OHM 1/4W 1% 1206 SMD	311-499FRCT-ND	508		61	
RES SMD 680 OHM 1% 1/4W 1206	311-680FRCT-ND	120		2	
Phototransistor 935nm Top View 2-PLCC	365-1481-1-ND	68		2	
CAP CERAMIC, 1UF 250V X7R 1206	399-4074-1-ND	710		29	
MIC MEMS ANALOG OMNI -22DB	423-1134-1-ND	12		0	
MIC MEMS DIGITAL I2S OMNI -26DB	423-1405-1-ND	14		0	
CAP CER 1UF 50V 10% X7R 1206	445-1423-1-ND	525		28	
MAGNET 1-2"DIA X 1	469-1002-ND	1		0	
MAGNET 1-4"DIA X 1	469-1004-ND	1		0	
DIODE SCHOTTKY 100V SGL SOD-123	497-5559-1-ND	51		0	
RESONATOR CER 8.00 MHZ W/CAP SMD	535-10004-1-ND	44		0	
CAP CER 10UF 35V Y5V 1206	587-1352-1-ND	170		3	
CONN SOCKET DIC 8POS DL SR 30AU	609-2841-ND	0		0	
IC SENSOR HALL EFFECT SOT23W	620-1021-1-ND	8		0	
IC MOTOR DRIVER PAR 8SOIC	620-1400-1-ND	1		0	
IC PWM MOTOR DVR FULL 8SOIC	620-1428-1-ND	120		0	
CRYSTAL 16.00000MHZ 8PF SMD	644-1037-1-ND	110		4	
CRYSTAL 20.000000MHZ 8PF SMD	644-1039-1-ND	57		27	
MIC COND ANALOG OMNI -38DB	668-1296-ND	28		0	
LCD MODULE 16x2 CHARACTER	67-1781-ND	11		0	
CONN HEADER 32POS SOCKET 2.54MM	732-2893-ND	0		0	
FTDI - CABLE USB EMBD UART 5V, 1"HDR	768-1028-ND	3		0	
2X3POS DIL VERTICAL SMT HEADER	952-1922-ND	0		15	
IC OPAMP SNGL R-R I-O LN SOT23-5	ADB605ART2REEL7CT-ND	55		0	
ACCELEROMETER DGTL 3AXIS 14LGA	ADXL343BCCZ-ND	4		1	
CABLE 10 COND 300' MULTI RIBBON	AE10M-300-ND	0		0	
IC MCU 8BIT 16KB FLASH 32TQFP	ATMEGA168PA-AU-ND	25		0	
IC MCU 8BIT 32KB FLASH 32TQFP	ATMEGA328P-AU-ND	16		2	
IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA32U4-AURCT-ND	9		3	
IC MCU AVR 4K FLASH 20MHZ 14SOIC	ATTINY44A-SSU-ND	1		28	
IC AVR MCU 4K 10MHZ 8SOIC	ATTINY45V-10SU-ND	1		3	
IC MCU 8BIT 16KB FLASH 32TQFPX	ATXMEGA16E5-AURCT-ND	25		0	
IC MCU 8BIT 16KB FLASH 32TQFP	ATXMEGA16E5-AURCT-ND	525		0	
HOLDER BATTERY 9V WIRE LEADS-	BS9I-MC-ND	1		0	
DIODE ZENER 500MW 3.3V SOD123	BZT52C3V3-FDICT-ND	460		40	
LED RGB DIFFUSED 4PLCC SMD	CLV1A-FKB-CK1N1G1BB7R4533CT-ND	50		3	
CONN PWR JACK DC 0.65X2.75MM SMD	CP1-023PJCT-ND	25		0	
QUICK BRAID GOLD .050" X 10'-	EB1088-ND	5		0	
TERMINAL BLOCK 3.5MM 2POS PCB	ED1514-ND	1		0	
TERMINAL BLOCK 3.5MM 3POS PCB	ED1515-ND	1		0	
TWEEZER CURVED PRECISION TIP-	ERDP7SA-ND	3		0	
CONN RECEPT MINI USB2.0 5POS	H2961CT-ND	17		16	
CONN RECEPT MINI USB2.0 5POS	H2961CT-ND	710		0	
Hm11 Bluetooth 4.0 BLE Module	https://www.amazon.com/Diymall-Bluetooth-Mo	4	no more left	0	
ESP8266 Wifi Module ESP-12E	https://www.amazon.com/Diymall-ESP8266-Wif	13		1	
DIYmall nRF24L01+ 2.4GHz Wireless Transceiver 2pcs	https://www.amazon.com/DIYmall-Transceiver-v	13		0	
2pcs NRF905 GFSK Wireless Transmitting Receiver Module 1.9-3.6	https://www.amazon.com/NRF905-Wireless-Tra	0		0	
Nitinol 500 Micrea Longfuol 1m	https://www.todoelectronica.com/nitinol-500-mic	1		0	
SOLDER NO-CLEAN .020" X 1 lb-	KD1450-ND	5		0	
Pyroelectric Infrared PIR Motion Sensor Detector Module Hc-sr501 (	link amazon	7		1	
Ultrasonic Module HC-SR04 Distance Sensor - (5pcs)	link amazon	2		1	
IC 3.3V100MA LDO VREG SOT23	LM3480IM3-3.3/NOPBCT-ND	103		3	
IC 5.0 100MA LDO VREG SOT23	LM3480IM3-5.0/NOPBCT-ND	315		3	
IC 5.0 100MA LDO VREG SOT23	LM3480IM3-5.0/NOPBCT-ND	13		0	
IMU ACCELGYRO I2C/SPI 16LGA	LSM6DS33TR	5		0	
MOSFET N-CH 30V 1.7A SSOT3	NDS355ANCT-ND	17		0	
MOSFET P-CH -30V 1.1A 3-SOT	NDS356APCT-ND	100		0	
TEMP SENSOR RTD 1.0K OHM 1206	PT51206F.0KCT-ND	29		0	
USB 2.0 Cable A Male to Mini B Male	Q362-ND	8		0	
MOSFET N-CH 55V 16A TO-252AA	RFD16N05LSM9ACT-ND	23		0	
SWITCH TACT SMD W-GND 160GF	SW026CT-ND	39		24	
CER RESONATOR 20.00MHZ SMD	XC1109CT-ND	159		7	
		0		0	
caliper		1		0	
multimeter		4		0	
		1		0	

COMPONENT STOCK

Values for students to update

FAB ACADEMY EXTENDED INVENTORY

name	ID	Total qty	BCN Stock	Status	ORDER	NOTES
2x5 SMT HEADER	XC1285CT-ND	#N/A	10	#N/A	#N/A	
ATTINY 84		0	3	Mayor	-3	
ACCELEROMETER		0	17	Mayor	-17	
ALLEGRO H-BRIDGE		0	24	Mayor	-24	
ATMEGA 328		0	6	Mayor	-6	
ATTINY 13V	620-1140-1-ND	0	4	Mayor	-4	
ATTINY 15L	620-1352-1-ND	0	11	Mayor	-11	
ATTINY 44	365-1481-1-ND	0	67	Mayor	-67	
CAP 10 UF (BOX)		0	2	Mayor	-2	
CAP 10000PF 50V CERAMIC X7R 1206		0	4	Mayor	-4	
CAP 1000PF 1KV CERAMIC X7R 1206	1276-1772-1-ND	0	10	Mayor	-10	
CAP 3.3UF 16V CERAMIC Y5V 1206	9W282CT-ND	0	9	Mayor	-9	
CAP 8UF (BOX)	4012012-1-ND	0	0	Mayor	0	
CAP ALUM 100UF 20% 6.3V SMD		0	11	Mayor	-11	
CAP ALUM 10UF 20% 25V SMD	399-6726-1-ND	0	10	Mayor	-10	
CAP CER 0.22UF 25V 20% X7R 1206	MRF49XA-I/ST-ND	0	4	Mayor	-4	
CAP CER 10UF (BOX)		0	98	Mayor	-98	
CAP CER 2.2UF 16V Y5V 1206		0	20	Mayor	-20	
CAP CER 22PF 50V 5% NPO 1206		0	1	Mayor	-1	
CAP CER 22UF 25V 10% X5R 1206		0	0	Mayor	0	
CAP CER 4.7UF 35V Y5V 1206		0	6	Mayor	-6	
CAP CERAMIC 100PF 50V NP0 1206		0	73	Mayor	-73	
CAP CERAMIC 1PF 50V NP0 1206		0	9	Mayor	-9	
CAP SUPER 1F 5.5V RADIAL		0	52	Mayor	-52	
CAPACITOR 047UF		0	2	Mayor	-2	
CAPACITOR 10UF (BOX)		0	33	Mayor	-33	
CAPACITOR 2.7UF(BOX)		0	46	Mayor	-46	
CAP CER 8PF 50V NP0 0603	445-14051-1-ND	0	100			
CAP CER 8PF 50V NP0 0805	311-1097-1-ND	0	50			
CAP CER 8PF 50V NP0 0805	1276-2556-1-ND	0	20			
CAP CER 22UF 6.3V X5R 0603	311-1815-1-ND	0	50			
CAP CER 0.47UF 25V X7R 1206	1276-1088-1-ND	0	20			
CAP CER 0.22UF 50V X7R 1206	1276-1106-1-ND	0	20			
CAP CER 0.1UF 50V X7R 1206	399-1249-1-ND	0	10			
CHOKE COIL 1000UH 410MA SMD	PCD2176CT-ND	0	14	Mayor	-14	
CHOKE COIL 100UH 1200MA SMD	PCD2164CT-ND	0	15	Mayor	-15	
CHOKE COIL 10UH 3900MA SMD	PCD2152CT-ND	0	16	Mayor	-16	
COKE COIL 1.2UH 6500MA SMD	PCD2144CT-ND	0	15	Mayor	-15	
CONN SOCKET IDC 10POS DUAL 30AU		0	3	Mayor	-3	
CONN RCPT USB2.0 MICRO B SMD R/A	609-4618-1-ND	0	55			
CONN USB		0	2	Mayor	-2	
CONN HDMI		0	2	Mayor		
CRYSTAL 18MHZ 18PF	XC1285CT-ND	0	10	Mayor	-10	
8MHZ RESONATOR	81CSTCE8M00G55-R	0	13			
CRYSTAL 12MHZ		0	17	Mayor	-17	
CRYSTAL 16.0000MHZ 8PF SMD	1253-1698-1-ND	0	10			
CRYSTAL 32.7680KHZ 12.5PF SMD	535-9166-1-ND	0	5			
CRYSTAL 16.0000MHZ 8PF SMD	1253-1180-1-ND	0	10			
DIODE SCHOTTKY 40V 1.16A SOT23-3	ZLLS1000CT-ND	0	5	Mayor	-5	
DIODE SHOTTKY 100V 150MA SOD123	497-5559-1-ND	0	86	Mayor	-86	
DIODE SHOTTKY 100V 1A MINISMA	641-1331-1-ND	0	25			
DIODE SHOTTKY 40V 5A	SSC54-E3/57T	0	10	Mayor	-10	
DIODE ZENZER 4.7V		0	351	Mayor	-351	
DIODE ZENER 5.1V 200MW SOD923	NZ9F5V1T5G/OSCT-N	0	25			
DIODE ZENER 5.1V 500MW SOD123	MMSZ5231B-FDICT-N	0	25			
DIODE GP 75V 150MA SOD123FL	1N4148WFL-G3-08QC	0	5			
FTDI CHIP(BOX)		0	2	Mayor	-2	
FEMALE HEADER 1x40	ATMEGA88-20AU-ND	0	2	Mayor	-2	
HEADER	609-4618-1-ND	0	15	Mayor	-15	
HEADER 36POS	36-3001-ND	0	3	Mayor	-3	
HOLDER BATTERY COIN 12MM DIA DHM	36-3001-ND	0	12	Mayor	-12	
HUMIDITY SENSOR	311-1212-1-ND	0	352	Mayor	-352	
IC AMP AUDIO PWR 1.5W MONO 8SOIC	311-1154-1-ND	0	87	Mayor	-87	
IC AVR MCU 8K 20MHZ 5V 32TQFP	311-1161-1-ND	0	319	Mayor	-319	
IC MCU 8BIT 4KB FLASH 8SOIC	445-4017-1-ND	0	106	Mayor	-106	
ATMEGA 16U2	ATMEGA16U2-AU-ND	0	17	Mayor		
ATXMEGA 16A4U-AUR	ATXMEGA16A4U-AUR	0	5	Mayor		
STM32F 103C8T6	497-6063-ND	0	10	Mayor		
IC MOTOR DRIVER PAR 24SOIC	587-2254-1-ND	0	85	Mayor	-85	
IC MOTOR DRIVER PAR 24TSSOP	311-1144-1-ND	0	257	Mayor	-257	
CAP CER 10000PF 50V X7R 1206	311-1174-1-ND	0	214	Mayor	-214	
IC OPAMP GP 10MHZ RRO SOT23-5	AD8605ARTZREEL7C	0	30	Mayor	-30	
IC OPAMP GP 24MHZ RRO SOT23-5	AD8615AUJZ-REEL7CT-ND		20			
IC REG LINEAR 3.3V 1A SOT223-3	ZLDO1117G33DICT-N	0	29	Mayor	-29	
IC REG LIN POS ADJ 150MA SOT23-5	576-1262-1-ND	0	35	Mayor	-35	
IC REG LINEAR 5V 1A SOT223-3	ZLDO1117G50DICT-N	0	28	Mayor	-28	
REGULATOR 6V 500MA	401-1001-1-ND	0	4	Mayor	-4	
IC REG LINEAR 5V 1A SOT223-4	LM2940IMP-5.0/NOPB	0	70	Mayor	-70	
IC CONTROLLER LI-ION 4.2V	MCP73831T-2ACI/OTC	0	10	Mayor	-10	
IC BATT CHRGR LI+ 1CELL SOT23-5	MAX1555EZK+TCT-N	0	4	Mayor	-4	
RF TXRX MOD 802.15.4 TRACE ANT	MRF24J40MA-I/RM-N	0	13	Mayor	-13	
IC RF TXRX 433MHz, 868MHz, 915MHz 16-T	MRF49XA-I/ST-ND	0	25	Mayor	-25	
IC DIFF BUS TRANSCEIVER 8-SOIC	296-6857-5-ND	0	10	Mayor	-10	
IC ASK TRANSMITTER UHF 8SOIC	576-1338-ND	0	25	Mayor	-25	
IC SCREEN CNTRL 128IT 28SSOP	AB1100-I/SS-ND	0	5	Mayor	-5	
IC OR CTRLR SRC SELECT 8TSSOP	296-16935-2-ND	0	3	Mayor	-3	
IC RECEIVER 300-440MHZ 8-SOIC	576-1961-5-ND	0	25	Mayor	-25	
IC RTC CLK/CALENDAR I2C 8-SOIC	DS1307ZN+T&R/TR-N		5	Mayor	-5	
IC FLASH 128M SPI 108MHZ 8SOP2	557-1562-ND	0	5			
IC VREF SERIES 1.8V SOT23-3	296-22637-1-ND	0	20			
IC HEX LEVEL BUFFER NON-INVERT 6V 16	1727-6331-1-ND	0	5			
IR LED 850NM	LM4861M-ND	0	20	Mayor	-20	
LED IR GaAlAs CLEAR	LM3A80M3-3.3/NOPB	0	81	Mayor	-81	
MAGNETIC SWITCH	127-3047-1-ND	0	0	Mayor	0	
MALE HEADER 1x40	399-6724-1-ND	0	9	Mayor	-9	
MALE HEADER 1x40 SMD		0	102	Mayor	-102	
MALE HEADER 2x40		0	11	Mayor	-11	
MIC CONDENSER ELEC-40+-3DB PIN		0	4	Mayor	-4	
MOD SIMPLELINK WIFI CC3000	296-35512-1-ND	0	9	Mayor	-9	
MOSFET H-BRIDGE DUAL		0	18	Mayor	-18	
TRANS NPN 80V 1.5A SOT-32	497-6658-5-ND	0	5			
MOSFET N-CH 55V 49A TO-220AB	IRFZ44NPBF-ND	0	29			
PHOTOTRANSISTOR 940NM FLAT TOP BK	1080-1379-1-ND	0	100	Mayor	-100	
PHOTOTRANSISTOR WATER CLR RA SMD	1080-1378-1-ND	0	2	Mayor	-2	
PHOTOTRANSIST FLAT CLR MINI SMD	1080-1386-1-ND	0	2	Mayor	-2	
POWER PLUGS (BOX)		0	24	Mayor	-24	
RES 0.25 OHM 1W 1% 2010	CSRN2010FKR250CT-0		16	Mayor	-16	
RES 0.25 OHM 1% 1/4W 1206	311-.25LWCT-ND	0	25			
RES 0.68 OHM 1% 1/2W 1206	311-.68LYCT-ND	0	25			
RES 2.2K OHM 1/4W 5%1206 SMD	311-2.2KERCT-ND	0	100	Mayor	-100	
RES 200K OHM 1% 1206 TF	311-200KNICT-ND	0	96	Mayor	-96	
RES 20K OHM 1/4W 1% 1206	RMCF1206FT20K0CT-0		246	Mayor	-246	
RES 220 OHM 1/4W 5% 1206 SMD	311-220ERCT-ND	0	56	Mayor	-56	
RES SDM 499 OHM 1% 1/4W 1206	311-499FRCT-ND	2	110	Mayor	-108	
RES SMD 0.0 OHM JUMPER 1/4W 1206	311-0.0ERCT-ND	0	128	Mayor	-128	
RES SMD 0.1 OHM 1% 1/4W 1206	311-0.1ANCT-ND	0	60	Mayor	-60	
RES 0.1 OHM 5% 1W 1206	P.10AVCT-ND	0	20			
RES SMD 100 OHM 1%1/4W 1206	311-100FRCT-ND	0	24	Mayor	-24	
RES SMD 1K OHM 1% 1/4W 1206	311-1.00KF3CT-ND	2	73	Mayor	-71	
RES SMD 560 OHM 5% 1/4W 1206	541-560ECT-ND	0	96	Mayor	-96	
RES SMD 680 OHM 5% 1/4W 1206	311-680ERCT-ND	0	97	Mayor	-97	
RESISTOR 1(BOX)		0	314	Mayor	-314	
RESISTOR 10(BOX)		0	652	Mayor	-652	
RESISTOR 100K(BOX)		0	330	Mayor	-330	
RESISTOR 10K(BOX)		0	55	Mayor	-55	
RESISTOR 1M(BOX)		0	350	Mayor	-350	
RESISTOR 10M (BOX)		0	275	Mayor	-275	
RESISTOR 2K (BOX)		0	290	Mayor	-290	
RESISTOR 4.99 O (BOX)	ZLLS1000CT-ND	0	0	Mayor	0	
RESISTOR 49.9 (BOX)		0	462	Mayor	-462	
RESISTOR 49.9K		0	596	Mayor	-596	
RESISTOR 499K(BOX)		0	320	Mayor	-320	
RESITOR 4.99M (BOX)		0	520	Mayor	-520	
RES SMD 120 OHM 1% 1/4W 1206	311-120FRCT-ND	0	50			
RES SMD 330 OHM 5% 1/10W 0603	541-330GCT-ND	0	10			
RES SMD 3.3K OHM 5% 1/4W 1206	311-3.3KERCT-ND	0	25			
RES SMD 3.3K OHM 1% 1/4W 1206	311-3.30KFRCT-ND	0	5			
RES SMD 604 OHM 1% 1/4W 1206	311-604FRCT-ND	0	100			
RES SMD 270 OHM 1% 1/4W 1206	311-270FRCT-ND	0	260			
RESONATOR CER 16.00 MHZ	425-1006-1-ND	0	45	Mayor	-45	
SWITCH SLIDE SPDT 12V 100MA GW		0	3	Mayor	-3	
SWITCH SLIDE SPDT 100MA 12V	425-1005-1-ND	0	27	Mayor	-27	
SWITCH TACTILE SPST-NO 0.05A 24V	CKN9112CT-ND	0	7	Mayor	-7	
TILT SENSOR		0	1400	Mayor	-1400	
TRIMMER 10K OHM 0.05W SMD	490-8535-ND	0	100	Mayor	-100	
TRIMMER 5K OHM 0.25W SMD	490-6996-1-ND	0	2	Mayor	-2	
TXRX MODULE 868MHZ ULP SUB GHZ	MRF89XAM8A-I/RM-N	0	13	Mayor	-13	
BLUETOOTH MODULE TINI UB2	450-01-04-ND	0	19	Mayor		
RF TXRX MOD BLUETOOTH CHIP ANT	1446-1017-1-ND	0	2	Mayor		
RF TXRX MOD BLUETOOTH CHIP ANT	BL652-SA-01-CT-ND	0	4	Mayor		
LIGHT SENSOR AMBIENT SMD	1080-1244-1-ND	0	50			
SENSOR LASER DISTANCE TOF 2M	497-16538-1-ND	0	10			
SENSOR LINEAR HALL ANALOG SOT23W	620-1548-1-ND	0	25			
6-CHANNEL CAPACITIVE TOUCH SENSO	CAP1206-1-SL-ND	0	25			
CONN SD CARD PUSH-PUSH SMD	609-3956-1-ND	0	3			
CONN HOUS 4POS .100 W/RAMP/RIB	WM2002-ND	0	10			
CONN RCPT 4POS 0.1 TIN EDGE MNT	WM9002-ND	0	10			
TERM BLK 2POS SIDE ENT 3.5MM PCB	ED1514-ND	0	50			
TERM BLK 3POS SIDE ENT 3.5MM PCB	ED1515-ND	0	50			

	Updated values before ordering
	Values to update.
	Values updated when stock received

FAB ACADEMY EXTENDED INVENTORY

name	ID	Total qty	BCN Stock	Status	ORDER	NOTES
#REF!						

FAB ACADEMY EXTENDED INVENTORY

name	ID	Total qty	BCN Stock	Status	ORDER	NOTES

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