TEAM 201 BOM												
Part Name/Description	Unit Quantity	Unit Prototype Cost Tot	al Prototype Cost U	nit Production Cost Total Pro	oduction Cost Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link Sup	plier Supplier Part #	# Ordered D	ate Ordered	# Received Surplus Schematic Reference Designators
PIC18F27Q10, SOIC, MCU	1	\$1.54	\$1.54	\$1.17	\$1.17 Microchip	PIC18F27Q10-I/SO	https://www.microchi	p https://ww1.microchip Mic	ochip PIC18F27Q10-I/SO	5	2/15/2023	-1 U2
L6981N33DR, SOIC, Voltage Regulator	1	\$3.02	\$3.02	\$1.61	\$1.61 STMicroelectronics	L6981N33DR	https://www.digikey.c	to https://www.st.com/co Dig	key 497-L6981N33DRCT-ND	5	2/15/2023	-1 U1
MGAH1004330M-10, 33 uH Inductor	1	\$0.94	\$0.94	\$0.42	\$0.42 Laird-Signal Integrity Products	MGAH1004330M-10	https://www.digikey.c	to https://www.laird.com/ Dig	key 240-MGAH1004330M-10CT-ND	5	2/15/2023	-1 L1
CL21A106KOQNNNE, 10 uF capacitor	1	\$0.10	\$0.10	\$0.02	\$0.02 Samsung Electro-mechanics	CL21A106KOQNNN	E https://www.digikey.c	o https://media.digikey.c Dig	key 1276-1096-1-ND	25	2/15/2023	-1 C3
CL21B105KBFNNNG, 1 uF capacitor	1	\$0.11	\$0.11	\$0.02	\$0.02 Samsung Electro-mechanics	CL21B105KBFNNNG	https://www.digikey.c	o https://media.digikey.c Dig	key 1276-6470-1-ND	25	2/15/2023	-1 C2
08055C104MAT2A, 100 nF capacitor	8	\$0.16	\$1.28	\$0.03	\$0.24 KYOCERAAVX	08055C104MAT2A	https://www.digikey.c	o https://datasheets.kyo Dig	key 478-3351-1-ND	25	2/15/2023	-8 C4,C5, C6, C7,C8,C9
CL21A226MQQNNNG, 22 uF capacitor	1	\$0.13	\$0.13	\$0.02	\$0.02 Samsung Electro-mechanics	CL21A226MQQNNN	https://www.digikey.c	o https://media.digikey.c Dig	key 1276-6460-1-ND	25	2/15/2023	-1 C1
RNCP0805FTD10K0, 10k resistor	4	\$0.10	\$0.40	\$0.01	\$0.04 Stackpole Electronics	RNCP0805FTD10K0	https://www.digikey.c	to https://www.seielect.c	key RNCP0805FTD10K0CT-ND	25	2/15/2023	-4 R1, R6, R7,R11
RC0805JR-07470RL, 470 ohm resistor	1	\$0.10	\$0.10	\$0.01	\$0.01 Yageo	RC0805JR-07470RL	https://www.digikey.c	to https://www.yageo.cor Dig	key 311-470ARCT-ND	25	2/15/2023	-1 R2
RC0805JR-07220RL, 220 ohm resistor	5	\$0.10	\$0.50	\$0.01	\$0.05 Yageo	RC0805JR-07220RL	Link	Link Dig	key 311-220ARCT-ND	25	2/21/2023	-5 R3, R5, R8, R9, R10
696108003002, Fuse Holder	1	\$0.68	\$0.68	\$0.39	\$0.39 Wurth Elektronik	696108003002	https://www.digikey.c	to https://www.we-online Dig	key 732-11376-ND	5	2/15/2023	-1 F1
Temp Sensor	1	\$1.09	\$1.09	\$1.09	\$1.09 Microchip Technology	TC74A4-3.3VCTTR	Link	Link Dig	key TC74A4-3.3VCTDKR-ND	0		5 4 U4
Push Button	1	\$4.24	\$4.24	\$4.24	\$4.24 E-Switch	RP3502MBRED	Link	Link Dig	key SWITCH PUSH SPST-NC 3A 120	OV 0		-1 SW1
RGB LED	1	\$1.16	\$1.16	\$1.16	\$1.16 Kingbright	APTF3216QBDZGSU	J <u>Link</u>	Link Dig	key 754-2167-6-ND	5	2/15/2023	-1
1IFX9201SGAUMA1	1	\$4.88	\$4.88	\$4.88	\$4.88 Infineon	IFX9201SGAUMA1	Link	<u>Link</u> Dig	key IFX9201SGAUMA1CT-ND	5	2/15/2023	-1 U5
MOT-KM NJSC-12-A DC brushed motor	1	\$18.75	\$18.75	\$18.75	\$18.75 ISL Products international	MOT-KM NJSC-12-A	Digikey	<u>Link</u> ISL	Product: MOT-KM NJSC-12-A	0		-1 U6
HIH6130-021-001, Honeywell Humidity Sensor	1	\$18.77	\$18.77	\$18.14	\$18.14 Honeywell	HIH6130-021-001	Link	<u>Link</u> Dig	key HIH6130-021-001	3	2/15/2023	-1 U7
RAPC742X, Barrel Jack	1	\$1.56	\$1.56	\$1.56	\$1.56 Switchcraft Inc.	RAPC742X	Link	<u>Link</u> Dig	key SC1574-ND	2	2/15/2023	-1 J1
L74A26-2-1-2WX, Battery Pack	1	\$17.87	\$17.87	\$17.87	\$17.87 Dantona Industries	L74A26-2-1-2WX	Link	Link Dig	key 3145-L74A26-2-1-2WX-ND	0		3 2 7.5 in