Bill of Materials														
art Name/Description	Unit Quantity	Unit Prototype Cost	Total Prototype Cost	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	# Ordered	Date Ordered # R	teceived Surplus Schematic Reference Designato
0k Resistor	2	\$0.36	\$3.60	\$0.36	\$0.72	Vishay	CRCW121010K0JNEAIF	Mouser	Datasheet	Mouser	71-CRCW121010K0JNAIF	10	10/7/2024 TB	D #VALUE! R
k Resistor	1	\$0.11	\$2.16	\$0.11	\$0.49	Vishay / Dale	CRCW12101K00JNEAIF	Mouser	Datasheet	Mouser	71-CRCW12101K00JNAIF	20	10/7/2024 TB	D #VALUE! R
k Resistor	1	\$1.07	\$21.40	\$0.53	\$0.53	Bourns	CRT0603ABY-3001ELF	Mouser	Datasheet	Mouser	652-CRT0603ABY-3001E	20	10/7/2024 TB	D #VALUE! R
.7k Resistor	1	\$0.10	\$1.00	\$0.10	\$0.10	Vishay Dale	CRCW06034K70JNEA	Digikey	Datasheet	Digikey	CRCW06034K70JNEA	10	10/7/2024 TB	D #VALUE! R
2k Resistor	2	\$0.02	\$0.21	\$0.10	\$0.20	Stackpole Electronics Inc	RMCF1206JT2K20	Digikey	Datasheet	Digikey	RMCF1206JT2K20CT-ND	10	10/7/2024 TB	D #VALUE! R
20μf capacitor	1	\$2.08	\$20.80	\$1.08	\$1.08	KYOCERA AVX	TPSE227K016R0050V	Mouser	Datasheet	Mouser	581-TPSE227K16R0050V	10	10/7/2024 TB	D #VALUE! C
00μf capacitor	1	\$0.34	\$6.78	\$0.34	\$0.34	Samsung Electro-Mechanics	CL31A107MQHNNNE	Digikey	Datasheet	Digikey	1276-1782-1-ND	20	10/7/2024 TB	D #VALUE! C
.1 μF Capacitor	1	\$0.60	\$12.00	\$0.60	\$0.60	Cal-Chip Electronics, Inc.	GMC31CG104G25NT	Digikey	Datasheet	Digikey	2571-GMC31CG104G25NTTR-N	N 20	10/7/2024 TB	D #VALUE! C
.22 μf capacitor	1	\$0.26	\$2.63	\$0.26	\$0.26	Vishay Sprague	TMCSA1V224MTRF	Digikey	Datasheet	Digikey	718-2522-1-ND	10	10/7/2024 TB	D #VALUE! C
Diode	1	\$0.25	\$2.51	\$0.25		Vishay	BZT52C12-HE3_A-08	Mouser	Datasheet	Mouser	78-BZT52C12-HE3_A-08	10	10/7/2024 TB	D #VALUE! D
leaders (M-M)	2	\$3.57	\$14.28	\$3.57	\$7.14	Molex	90120-0784	Mouser	Datasheet	Mouser	538-90120-0784	4	10/7/2024 TB	D #VALUE! n/a
leaders (M-F)	2	\$0.34	\$2.04	\$0.34	\$0.68	Sullins Connector Solutions	PPPC021LFBN-RC	Digikey	Datasheet	Digikey	S7035-ND	6	10/7/2024 TB	D #VALUE! n/a
ficrocontroller	1	\$2.65	\$31.80	\$2.65	\$2.65	Microchip Technology	PIC18F47K42T-I/PT	Mouser	Datasheet	Mouser	579-PIC18F47K42TIPT	12	10/7/2024 TB	D #VALUE! MC
'oltage Regulator	1	\$2.70	\$8.10	\$2.70	\$2.70	onsemi	LM2596DSADIR4G	Digikey	Datasheet	Digikey	LM2596DSADIR4GOSCT-ND	3	10/7/2024 TB	D #VALUE! VR
OC Motor	2	\$2.97	\$11.88	\$2.97	\$5.94	NMB Technologies Corporation	PPN7PA12C1	Digikey	Datasheet	Digikey	942-PPN7PA12C1-ND	4	10/7/2024 TB	D #VALUE! M
OC Motor Driver	2	\$1.64	\$8.20	\$1.64	\$3.28	Texas Instruments	DRV8830DGOR	Digikey	Datasheet	Digikey	296-28165-1-ND	5	10/7/2024 TB	D #VALUE! MD
nductor	1	\$0.38	\$1.90	\$0.38		Ole Wolff Electronics Inc	OWINR8040-330	Digikey	Datasheet	Digikey	3949-OWINR8040-330CT-ND	5	10/7/2024 TB	
2V Battery	1	\$2.23	\$4.46	\$2.23	\$2.23	Energizer Battery Company	A23BPZ	Digikey	Datasheet	Digikey	A23BPZ-ND	2	10/7/2024 TB	D #VALUE! B
emperature Sensor	i	\$1.15	\$6.90	\$1.15	\$1.15	Microchip Technology	TC74A0-3.3VCTTR	Digikey	Datasheet	Digikey	TC74A0-3.3VCTCT-ND	6	10/7/2024 TB	
•						Honeywell Sensing and Productivity								
Iumidity Sensor	1	\$14.59	\$58.36	\$14.59	\$14.59	Solutions	HIH6030-021-001	Digikey	Datasheet	Digikey	480-5704-1-ND	4	10/7/2024 TB	D #VALUE! HS