

Team 203 S.I.R.E.N BOM

Part 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	# Received	Surplus	Schematic Reference	Designators
Motor	1		\$0.00	\$3.61	\$3.61	Vytronics Inc	VQ4TL2BQ380001	https://www.digikey.co	https://www.vytronics	Digikey	1670-VQ4TL2BQ380001-NI	2	2/14/2024	0	-1	M1	
Motor Driver	1		\$0.00	\$4.00	\$4.00	Infineon Techn	IFX9201SGAUMA1	https://www.digikey.co	https://www.infineon.co	Digikey	IFX9201SGAUMA1CT-ND	4	2/14/2024	0	-1	MD1	
Temperature Sensor	1		\$0.00	\$1.15	\$1.15	Microchip Tech	TC74A4-3.3VCTTR	https://www.digikey.co	https://ww1.microchip	Digikey	TC74A4-3.3VCTCT-ND	5	2/14/2024	0	-1		
4.7K Resistors	4		\$0.00	\$0.03	\$0.12	Stackpole Elec	RMCF1206FT4R70	https://www.digikey.co	https://www.selelect.co	Digikey	RMCF1206FT4R70TR-ND	20	2/14/2024	0	-4		
Light Sensor	1		\$0.00	\$1.02	\$1.02	Lite-On Inc.	LTR-329ALS-01	https://www.digikey.co	https://optoelectronics	Digikey	160-2160-1-ND	5	2/14/2024	0	-1		
Red LED	1		\$0.00	\$0.32	\$0.32	Visual Commu	LSM0805412V	https://www.digikey.co	https://vcclite.com/wp	Digikey	28-LSM0805412VTR-ND	10	2/14/2024	0	-1		
Green LED	0		\$0.00	\$0.39	\$0.00	Visual Commu	LSM0805452V	https://www.digikey.co	https://vcclite.com/wp	Digikey	28-LSM0805452VTR-ND	5	2/14/2024	0	0		
Yellow LED	0		\$0.00	\$0.39	\$0.00	Visual Commu	LSM0805472V	https://www.digikey.co	https://vcclite.com/wp	Digikey	28-LSM0805472VCT-ND	5	2/14/2024	0	0		
Switching volt Regulator	1		\$0.00	\$2.39	\$2.39	onsemi	LM2575D2T-3.3R4G	https://www.digikey.co	https://www.onsemi.co	Digikey	LM2575D2T-3.3R4GOSCT-	5	2/14/2024	0	-1		
Switch	0		\$0.00	\$0.76	\$0.00	C&K	JS202011SCQN	https://www.digikey.co	https://www.ckswitch	Digikey	401-2002-1-ND	5	2/14/2024	0	0		
Microcontroller	1		\$0.00	\$1.21	\$1.21	Microchip Tech	PIC16F18325T-I/SL	https://www.digikey.co	https://ww1.microchip	Digikey	PIC16F18325T-I/SLTR-ND	10	2/14/2024	0	-1		
1uF Capacitors	1		\$0.00	\$0.00	\$0.00	ASU						0			1	0	
330uF Inductor	1		\$0.00	\$0.00	\$0.00	ASU						0			2	1	
100uF Polarized Capacitors	2		\$0.00	\$0.00	\$0.00	ASU						0			1	-1	
Diode	1		\$0.00	\$0.00	\$0.00											-1	