#	Project System	Item Name	Item Description	Source	Datasheet	Quantity	Unit	Price	Cost	Notes	PO	Approval	Fulfilled	Total	Budget remaining
1	Movement	SCUTTLE	SCUTTLE Robot Kit v2.3	https://scuttlerobot.o	https://scuttle	1	ea	$519.99	$519.99			DM	Yes	$3,063.94	$1,936
2	Movement	RPLidar A1M8	RPLidar A1M8 (Changed from RPLidar a2)	https://www.adafruit	https://cdn.sh	1	ea	$99.95	$99.95			DM	Yes		
3	Movement	LifePO Battery	Ampere Time 12V 50Ah LiFePO4 Battery with 14.6V 10A Dedicated Lithium	https://www.amazon		1	ea	$314.99	$314.99				Yes		Totals
4	Movement	USB A to Micro-B	USB Cable for connecting Lidar to Raspberry Pi	https://www.amazon		1	ea	$5.71	$5.71					Budget	$5,000
5	Infrastructure	T-Slotted Framing Rails	Size - T-Slotted Framing Rails	https://www.mcmast		40	ft	$8.00	$320.00	Estimated		-please use automationdirect.com for better price			
6	Infrastructure	T-Slotted Corner Bracket	T-Slotted Corner Bracket for Single Rails (fasteners included)	https://www.mcmast		75	ea	$3.40	$255.00	Estimated (find these on amazon for better value)		please match SCTL brackets & buy necessary fasteners, or 3D Print if you need a larger bracket			
7	Sanitizing Arm	T-Slotted Framing Rails	Size - T-Slotted Framing Rails	https://www.mcmast		2	ft	$8.00	$16.00			please use automationdirect	Yes		
8	Sanitizing Arm	UV Diode (Old Diode)	1944-UV265-3	https://www.digikey.c	https://www.	0	ea	$25.00	$0.00	Already have		DM	Yes		
9	Sanitizing Arm	UV Diode (New Diode)	IN-C40PU(X)TK UVC	https://www.mouser.c	https://www.n	20	ea	$25.67	$513.40			DM	Yes		
10	Sanitizing Arm	SM Relay Hat	Relay Hat to control UV lights	SM Relay HAT		1	ea	$45.00	$45	No longer considering		This relay hat will block airflow to your processor, also relays are much cheaper			
11	Sanitizing Arm	NOYITO SSR Relay	2 channel, 12V SSR relay to control UV lights	NOYITO Relay		1	ea	$8.50	$8.50						
12	Sanitizing Arm	SSR-25DD	DC to DC Relay	SSR-25DD		1	ea	$9.90	$9.90			DM	Yes		
13	Sanitizing Arm	LM2596	Buck Voltage Step Down Converter for UV Lights	LM2596		1	ea	$7.39	$7.39			DM	Yes		
14	Sanitizing Arm	PCB for LED Array	Possible redesign of PCB for space and heat	JCL PCB		8	ea	$1.45	$32.00	Shipping brought total to $18.10		DM	Yes		
15	Sanitizing Arm	Heatsinks for PCBs	100x25x10mm Aluminum Heatsink	https://www.amazon.		2	pkg	$8.59	$17.18	Order 1 pack when PCB is ordered to test		DM	Yes		
16	Sanitizing Arm	VL53L0X	VL53L0X Time of flight distance sensor	https://www.adafruit.	https://cdn.le	3	ea	$14.95	$44.85			DM	Yes		
17	Sanitizing Arm	Linear Actuator with NEMA	Actuator with NEMA Motor to Raise and Lower Arm	https://www.amazon.	https://www.c	1	ea	$232.00	$232.00	No Longer Considering					
18	Sanitizing Arm	Linear Actuator	Actuator to Raise and Lower Arm	https://www.aliexpress.com/item/4		1	ea	$135.00		No Longer Considering		DM	N/A		
19	Sanitizing Arm	DRV8825	NEMA Motor Driver	https://www.pololu.co	https://www.t	1	ea	$16.95	$16.95	No Longer Considering					
20	Sanitizing Arm	ST-M5045	NEMA Step Motor Driver	ST-M5045 Driver	ST-M5045 D	1	ea	$0.00	$0.00	Already have		DM	Yes		
21	Sanitizing Arm	CNCCANEN Ball Screw	Ball screw assembly (700mm)	Ball Screw Assembly		1	ea	$61.58	$61.58			DM	Yes		
22	Sanitizing Arm	Linear Rail Guides	Side rails for additional support (600 mm)	Linear Rail Guides		1	ea	$72.89	$72.89			DM	Yes		
23	Sanitizing Arm	McMaster NEMA 23 Motor	McMaster NEMA 23 Motor	McMaster NEMA 23		1	ea	$128.53	$128.53	No longer considering		let's replace with a digikey part			
24	Sanitizing Arm	Digikey NEMA 23 Motor	Digikey NEMA 23 Motor	Digikey NEMA 23		1	ea	$68.73	$68.73			DM	Yes		
25	Sanitizing Arm	Ball Screw Nut	Second Ball Screw Nut for Arm Stability (SFU1605)	Ball Screw Nut		1	ea	$21.89	$21.89			DM	Yes		
26	Sanitizing Arm	Ball Screw Nut Bracket	Second Ball Screw Nut Bracket for Arm Stability (Dia 28mm)	Ball Screw Bracket		1	ea	$10.99	$10.99			DM	Yes		
27	Sanitizing Arm	12V to 24V Converter	12V 24V 2A Step-Up Converter	https://www.amazon.		1	ea	$14.48	$14.48	No longer considering		Please increase spec for more amperage.			
28	Sanitizing Arm	12V to 24V Converter	Supernight 12V to 24V Converter	Supernight Step Up		1	ea	$18.95	$18.95			DM	Yes		
29	Sanitizing Arm	UV Safety Goggles	Safety goggles for testing	https://www.amazon.		6	ea	$16.95	$101.70			DM	Yes		
30	Sanitizing Arm	Mechanical Limit Switches	Limit switches for actuator to support software stop	https://www.amazon.		1	ea	$11.99	$11.99	Pack of 10 with cables (best value)		DM	Yes		
31	Sensor	Wemos d1 esp-wroom-02	Wemos Microcontroller with 18650 Battery Holder Attached	https://www.aliexpres		1	ea	$4.08	$4.08		https://drive.goo		Yes		
32	Sensor	18650 LiPo Battery	3.7 V LiPo Battery	https://www.18650ba		1	ea	$7.99	$7.99		https://drive.goo	Please find a LiPo as requested last semester	Yes		
33	Sensor	UV Light Sensor	UV Intensity Sensor on Breakout Board	https://www.adafruit.	https://cdn-sh	1	ea	$12.40	$12.40		https://drive.goo	DM	Yes		
34	Sensor	3D Printed Housing	Designed Housing for sensor components	https://engineering.b		1	ea	$15.00	$15.00			DM			
35	All	Assorted Wiring	Assorted 22AWG wiring for componenets (pack)			1	ea	$16.95	$16.95	Pack of spools		DM			
36	All	Assorted Connectors	Assorted Dupont jumper connectors (pack)			1	ea	$14.95	$14.95	Pack of assorted connectors		DM			
37	All	Wire ties / Snakeskin	Cable management items			1	ea	$20.00	$20.00	Assorted		DM			