ROV Parts for Cornerstone Electronics & Robotics III

ROV Parts for Cornerstone Electronics & Robotics III									
				Update	d 9/25/12				
Part Description	Source	Part #	Unit Cost	Quant.	Total Cost	Notes:			
Control Boy and Tathor			0031		0031				
Control Box and Tether: DPDT Center Off Momentary Switch Solder	Electronix Express	17TOGMOMDD8012A	\$1.80	1	\$1.80				
Competition Style Arcade Joystick	ABlackHorse.com	RA-Joystick-JS10	\$8.95	1	\$8.95				
25' - 24 AWG/4 Pair Category 5e Network Cable	Jameco	645722	\$3.74	1	\$3.74	Purchased in 100' Roll			
25' - 16/3 Extension Cord	Home Depot	277525	\$4.24	1	\$4.24	Purchased as 100' Cord			
25' - 16/2 Awg 250 Feet In Wall Speaker Wire	Amazon.com	-	\$4.60	1	\$4.60	Purchased in 250' Rolls			
8' - 16/2 Awg 250 Feet In Wall Speaker Wire	Amazon.com	•	\$1.50	1	\$1.50	Purchased in 250' Rolls			
5" L x 4" W x 3" H Aluminum Enclosure	Jameco	11886	\$8.95	1	\$8.95	B			
1/4" Stud Size Ring Terminal	MSC MSC	02651065 03078805	\$0.20	2	\$0.40	Purchased in quantities of 25 Also available at auto supply stores			
Automotive Fuse Holders 20A - Fuse Type: AF Automotive - ATC Blade Type Fuses 10 Amp	MSC	74680513	\$1.46 \$0.66	1	\$1.46 \$1.98	Purchased in quantities of 5			
**	Wico	7-4000010	ψ0.00	Ü	Ψ1.50	Turoriadea in quantitied or o			
Printed Circuit Board: PIC16F88	microchipdirect.com	PIC16F88-I/P	\$2.60	1	\$2.60	Purchased in quantities of 1 - 25			
18 Pin Socket 0.30" Width	Jameco	112231	\$0.16	1	\$0.16	Purchased in quantities of 10-90			
+5V 1A Voltage Regulator T-220 Package	Jameco	51262	\$0.29	2	\$0.58	Purchased in quantities of 1-9			
Connector Terminal Blocks 2 Position 16A	Jameco	2094485	\$0.39	4	\$1.56	Purchased in quantities of 1-9			
Connector Terminal Blocks 4 Position 16A	Jameco	2124429	\$0.65	1	\$0.65	Purchased in quantities of 1-9			
0.33 uF Capacitor	Jameco	138237	\$0.15	2	\$0.30	Purchased in quantities of 10-90			
0.1 uF Capacitor	Jameco	25523	\$0.08	2	\$0.16	Purchased in quantities of 10-90			
4.7K 1/2W Resistor	Jameco	661677	\$0.05	1	\$0.05	Purchased in quantities of 100-900			
10K 1/4W Resistors	Jameco	691104	\$0.04	4	\$0.16	Purchased in quantities of 100-900			
1K 1/4W Resistors 1K 1/2W Resistors	Jameco	690865 661503	\$0.04	4 5	\$0.16	Purchased in quantities of 100-900			
Red LED	Jameco Jameco	333973	\$0.05 \$0.12		\$0.25 \$0.12	Purchased in quantities of 100-900 Purchased in quantities of 10-90			
Green LED	Jameco	334086	\$0.12	4	\$0.12	Purchased in quantities of 10-90			
PN2907A PNP Transistor TO-92 Package	Jameco	178520	\$0.05	4	\$0.20	Purchased in quantities of 10-90			
1N5817 Schottky Diode	Jameco	177949	\$0.14	4	\$0.56	Purchased in quantities of 10-90			
Relay SPDT 8 Amps DC, 5V Coil	Jameco	187151	\$1.35	4	\$5.40	Purchased in quantities of 10-49			
MG Chemicals 9x6 in Printed Circuit Board 1/16"						·			
Thick Single Sided Presensitized (Makes 3	Allied Electronics	70125850	\$4.15	1	\$4.15	Purchased in quantities of 1+			
Boards) (Chemicals and Kits Extra)									
Motors/Propellor:									
Mayfair Bilge Pump 500 GPH	Aftermarket Marine	IMBP01	\$19.95	3	\$59.85				
Traxxas #1583 Right Hand 4.0 mm Propellor	Tower Hobbies	1583	\$3.19	2	\$6.38				
Traxxas #1584 Left Hand 4.0 mm Propellor	Tower Hobbies	1584	\$3.19	1	\$3.19				
Body, Pressure Canister, & Hardware:									
413-005 1/2" Side Outlet 90s (PVC Corners)	FlexPVC.com	413005	\$1.19	8	\$9.52				
1/2" PVC Schedule 40 Pipe	Home Depot	193682	\$1.78	2	\$3.56				
1/2" PVC Slip Slip Couplings	Home Depot	571683	\$0.17	4	\$0.68	Purchased in quantities of 10			
1/2" PVC Slip Slip Slip Tee	Home Depot	366923	\$0.23	8	\$1.80	Purchased in quantities of 10			
1/2" PVC Slip Slip Elbow	Home Depot	571697	\$0.17	6	\$1.02	Purchased in quantities of 10			
4 in. UV-Resistant Cable Ties (1,000-Pack)	Home Depot	747442		40	\$0.68	Purchased in quantities of 1000			
8 in. UV-Resistant Cable Ties (1,000-Pack)	Home Depot	748726	\$0.02		\$0.50	Purchased in quantities of 1000			
14 in. UV-Resistant Cable Ties (1,000-Pack)	Home Depot	295875	\$0.13	25	\$3.25	Purchased in quantities of 1000			
1/4-20 18-8 Stainless Steel All-Thread, 3' Long 1/4-20 x 3" Stainless Steel Machine Screws	MSC MSC	06052104 67572768	\$4.48	1	\$4.48 \$3.38	Purchased in quantities of 100			
1/4-20 X 3 Stainless Steel Nuts	MSC	87925608	\$0.07	12	\$0.84	Purchased in quantities of 100			
1/4-20 Stainless Steel Washers	MSC	06796197		12	\$0.41	Purchased in quantities of 100			
1/4-20 Stainless Steel Wing Nuts	MSC	67581447	\$0.82	4	\$3.28	Purchased in quantities of 100			
1/4" x 1 1/2" Fender Stainless Steel Washers	McMaster Carr	90313A109	\$0.36	20	\$7.20	Purchased in quantities of 25			
Industrial Thermo Polymers "Water Noodle"	Pinch-A-Penny	15820350	\$1.99	0.5	\$1.00				
#8-32 x 3/4" Stainless Steel Machine Screw	MSC	67571604	\$0.101	4	\$0.40	Purchased in quantities of 100			
#8-32 Stainless Steel Washer	MSC	87925335	\$0.021	4	\$0.08	Purchased in quantities of 100			
#8-32 Stainless Steel Nut	MSC	87925541	\$0.057	4	\$0.23	Purchased in quantities of 100			
1/4" ID - 1/2" OD Rubber Grommet	MSC	82828535	\$0.10	1	\$0.10	Purchased in quantities of 100			
5/8" x 0.014" x 2" Long Brass Tubing	Local Hardware Store	470700	\$1.00	1	\$1.00	Durch and in supplies of 400			
3/16" Cable Clamp 3" OD x 2 3/4" ID x 7 1/8" Plexiglas Cylinder	Jameco McMaster Carr	173729 8486K361	\$0.06 \$5.53	2	\$0.12 \$5.53	Purchased in quantities of 100 3' Piece Makes 4 Canisters			
4" x 4" x 1/2" Plexiglas	McMaster Carr	8560K274	\$8.22	1	\$8.22				
4" x 4" x 1/4" Aluminum	McMaster Carr	8975K425	\$2.94	1	\$2.94	4" x 12" Bar Makes 3 Pieces			
2" x 8" Aluminum Bar	Home Depot	482809	\$2.55		\$2.55	3' Bar Makes 4 Pieces			
6" x 6" Rubber Gasket	Home Depot	124734	\$2.29	1	\$2.29	Purchased in Packs of 2			
Lapp S1234 Connector, Liquid-Tight, Non-	Allied Electronics	70123233	\$2.39	1	\$2.39	Purchased in quantities of 1-9			
Metallic, NPT-3/4 Inch, Gray		70123233	Ψ2.03	'	Ψ2.03	. a.			
Telfon Tape	Home Depot	•	-	-	-				
1/2" x 20' Caulk Backer Rod	Home Depot	462440	\$3.48		\$3.48				
1/2" Braided Expandable Sleeving	Ebay	- 07007044	\$8.25	1	\$8.25	Durchand in quartities of 400			
#6-32 x 3/4" Stainless Steel Machine Screw #6-32 Stainless Steel Washer	MSC MSC	37007341 87925533			\$0.88 \$0.24	Purchased in quantities of 100 Purchased in quantities of 100			
#6-32 Stainless Steel Washer #6-32 Stainless Steel Nut	MSC	87925327			\$0.24	Purchased in quantities of 100			
#6 x 1/4" Nylon Spacers	McMaster Carr	94639A301			\$0.38	Purchased in quantities of 100			
Total:					\$205.29	Costs exclude shipping & sales tax			
Total.					ψ ∠ υJ. ∠ J	Costs exclude shipping a sales lax			
Source List:									

Source List:

_			
	Vendor Name	Website	Telephone #
	ABlackHorse.com	ABlackHorse.com	800-805-9729
	Aftermarket Marine	amarket.com	800-349-2628
	Allied Electronics	alliedelec.com	866-433-5722
	Amazon.com	amazon.com	-
	Electronics Express	elexp.com	800-972-2225
	FlexPVC.com	flexpvc.com	352-620-8080
	Home Depot	homedepot.com	-
	Jameco	jameco.com	800-831-4242
	McMaster Carr	mcmaster.com	630-600-3600
	MicrochipDirect	microchipdirect.com	888-624-7435
	MSC Industrial Supply Co,	mscdirect.com	800-645-7270
	Pinch-A-Penny	pinchapenny.com	-
	Tower Hobbies	towerhobbies.com	800-637-6050