Solar SPELL Digital Library Version 1 Bill Of Materials

Item	Specifics	Where purchased (with specific link to where we	Approx. Cost
		purchased items)	(USD)
10-Watt Solar Panel	ECO-WORTHY 10 Watt 12 V Solar Panel Module Garden Fountain Pond Battery Charger	Amazon http://smile.amazon.com/ECO- WORTHY-Portable-Fountain-Battery- Charging/dp/B00FF1KEMI/ref=sr_1 3?ie=UTF8&qid=1431889055&sr=8- 3&keywords=eco+worthy+10+watt+s olar+panel	\$30
Waterproof Plastic Box	14" L x 8-7/8" W x 2-1/8" H OD Waterproof Tuff Tainer. POLYPROPOLEN E Manufacturer Flambeau® Manufacturer Part # 6750TE WT5000	US Plastics http://www.usplastic.com/catalog/it em.aspx?itemid=103181&catid=598	\$20 (with shipping)
Voltage Regulator	USB Car Adapter DC 8-22V 12V to 5V 3A Step Down	Ali Express or Amazon http://www.aliexpress.com/item/20- PCS-LOT-USB-Car-Adapter-DC-8-22V- 12V-to-5V-3A-Step-Down- Synchronous/1628725203.html http://smile.amazon.com/gp/product /B00U2DGKOK?psc=1&redirect=true &ref_=oh_aui_detailpage_007_s02	\$11
Battery	RAVPower Element 10400mAh Portable Charger iSmart Technology (External Battery Pack, Power Bank, 3A Output, Dual USB)	Amazon http://smile.amazon.com/gp/product /B00DMXJITQ/ref=od_aui_detailpage s00?ie=UTF8&psc=1	\$20
Banana Pi	Banana Pi Mini	Amazon	\$40

Computer	PC Open Source Mainboard - A7 DualCore / 1GB DDR3	http://smile.amazon.com/Banana- Mini-Open-Source- Mainboard/dp/B00MWA5JKM/ref=sr _1_1?ie=UTF8&qid=1439686284&sr= 8-1&keywords=banana+pi	
Banana Pi Case	We recommend to use clear plastic case so computer can be seen	Amazon http://smile.amazon.com/SainSmart- Enclosure-Transparent-Acrylic- Banana/dp/B00UAJ72H0/ref=sr_1_6? ie=UTF8&qid=1439686608&sr=8- 6&keywords=banana+pi+case or http://smile.amazon.com/Quality- Clear-Banana-Access- assemble/dp/B00SEFRI9E/ref=sr_1_ 3?ie=UTF8&qid=1439686663&sr=8- 3&keywords=banana+pi+case+clear	\$10
WiFi Dongle	Comfast® WU810N 150Mbps 802.11n Nano Wireless N WiFi USB Adapter	Amazon http://smile.amazon.com/Comfast% C2%AE-Wireless-Miniature-invisible- Supported/dp/B00PJPSY40/ref=sr_1 8?ie=UTF8&qid=1431893374&sr=8- 8&keywords=comfast+wu8+wifi	\$10
SD Card	32GB Class 10 SDHC Memory Card	Amazon http://www.amazon.com/Patriot- UHS-1-Memory-Transfer- Speed/dp/B0080MQY24/ref=sr_1_1? s=electronics&ie=UTF8&qid=143154 2731&sr=1- 1&keywords=PEF32GSHC10333	\$15
USB to Micro USB cable	One was included with the RAV Power batteries we ordered	Amazon	(included)
Heat Shrink Tubing (and use of heat gun)	Gardner	Home Depot (we used this to hide the wires when we soldered together the wires from the solar panel to the voltage regulator and make it waterproof/water resistant)	\$5
Solder/Sold er Iron	VELCRO Brand -	Home Depot (We soldered together the wires from the solar panel to the voltage regulator) Amazon (We used Velcro to fasten	
7 0101 0	VELICITO DI AIIU	Timazon (vvc asca veleto to lastell	

Glue	Industrial Strength - 2" Wide Tape, 15' - 3M glue + gun + plunger + nozzle 3M Scotch-Weld Structural Plastic Adhesive DP8005 Translucent, 1.25 fl oz/35 mL (Case of 12) 3M scotch weld; 10:1 plunger 3M Scotch-Weld EPX Plus II Applicator W 2:1 and 1:1 Plunger Model 91 3M Scotch-Weld	/hold down the battery and computer to the box) http://smile.amazon.com/VELCRO-Brand-Industrial-Strength-White/dp/B0006HWYJM/ref=lh_ni_t? ie=UTF8&psc=1∣=ATVPDKIKX0 DER PLEASE NOTE: THE BOX IS MADE OF POLYPROPOLENE. THIS IS A VERY CHALLENGING MATERIAL TO GLUE. WE PURCHASED A VERY SPECIALIZED GLUE FOR THIS PROJECT—YOU MAY FIND A DIFFERENT GLUE THAT WORKS. OURS WAS A VERY COMPLICATED, INVOLVED, EXPENSIVE SOLUTION, BUT IT WORKED VERY WELL. Amazon http://www.amazon.com/gp/produc t/B009ZLESR6?psc=1&redirect=true &ref =oh aui detailpage o05 s00 and http://www.amazon.com/gp/produc t/B00PME7FN4?psc=1&redirect=true &ref =oh aui detailpage o03 s00 and http://www.amazon.com/gp/produc	\$350 (for 12 glue sticks) \$20 (plunger) \$65 (glue gun) \$30 (for 12 nozzles)
	of 12)	INVOLVED, EXPENSIVE SOLUTION,	\$30 (for
			`
	3M scotch weld;		nozzles)
	10:1 plunger	http://www.amazon.com/gp/produc	
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	Model 91		
	3M Scotch-Wold		
	EPX Plus 35mL	t/B001ANXYF4?psc=1&redirect=true	
	9164 Nozzles	&ref_=oh_aui_detailpage_o05_s00	
	10:1 Ratio (3M	and	
	31382 12 35mL	http://www.amazon.com/gp/produc	
	Nozzles)	t/B00XAJUDZA?psc=1&redirect=true	
		&ref_=oh_aui_detailpage_o06_s00	