

Item Name	Description	Units of Measure	Quantity (#)	Unit Cost (\$)	Extended Cost (\$)
Stepper Motor	27mm width. 5V	Volts	2	5.5	11
Servo Motor	4.8V-6V/20.86 oz/in	Volts/Torque	1	8.99	8.99
Brush	Bottle Brush 2.5" diamter and 5" height	radius and height in in.	1	9.97	9.97
Wires	Jumper wires	# of wires and	10	0.1	1
Wheels	3" diameter	radius in in.	2	4.67	9.34
Battery Holder	Holding quantity of batteries	# of batteries	2	1	2
Motor Shield	For controlling the stepper motor	# of boards	1	4.75	4.75
Arduino Uno	Microcontroller for the motors	# of board	1	17	17
				Total Cost	64.05
				Total Cost + Tax	72.3765
<b>List of Equipment</b>					
Arduino Studio	To program spinning motors	1,2,3	Laptops		
Assembling	To assemble the materials into a prototype	1,2,3	MakerLab		
<b>List of Found Materials</b>					
3D printer					
Wood					
12V motor					
L bracket					
Smaller Brush					

Link					
<a href="https://edu-makerlab.odoo.com/shop/product/dc-gear-stepper-motor-64?search=motor#attr=">https://edu-makerlab.odoo.com/shop/product/dc-gear-stepper-motor-64?search=motor#attr=</a>					
<a href="https://edu-makerlab.odoo.com/shop/product/servo-motor-76#attr=353">https://edu-makerlab.odoo.com/shop/product/servo-motor-76#attr=353</a>					
<a href="https://www.homedepot.ca/product/unger-unger-flexible-glass-and-bottle-brush/1001494002">https://www.homedepot.ca/product/unger-unger-flexible-glass-and-bottle-brush/1001494002</a>					
<a href="https://edu-makerlab.odoo.com/shop/product/jumper-wires-44?search=wires#attr=45">https://edu-makerlab.odoo.com/shop/product/jumper-wires-44?search=wires#attr=45</a>					
<a href="https://www.mcmaster.com/wheels/wheels-4/water-resistant-rubber-wheels/">https://www.mcmaster.com/wheels/wheels-4/water-resistant-rubber-wheels/</a>					
<a href="https://edu-makerlab.odoo.com/shop/product/aa-battery-holder-48?search=battery#attr=47">https://edu-makerlab.odoo.com/shop/product/aa-battery-holder-48?search=battery#attr=47</a>					
<a href="https://a2delectronics.ca/shop/modules/shields/l293d-motor-driver-shield/">https://a2delectronics.ca/shop/modules/shields/l293d-motor-driver-shield/</a>					
<a href="https://makerstore.ca/shop/ols/products/arduino-uno-r3">https://makerstore.ca/shop/ols/products/arduino-uno-r3</a>					