

Appendix A

Bill of Materials

Name of Item	Vendor	Part Number	Quantity	Cost per Unit	Subtotal
Daoki High Sensitivity Sound Microphone Sensor Detection Module	Amazon	B00XT0PH10	1	\$1.14	\$1.14
Green LED	Jameco	334086	1	\$0.08	\$0.08
Resistor 1k Ω	DigiKey	1.0kQBK-ND	3	\$0.01	\$0.03
Tactile Switch Push Button	Jameco	155380	2	\$0.35	\$0.70
Motor Driver IC: L9110H	DigiKey	1528-4489-ND	1	\$1.42	\$1.42
Adafruit High Torque DC Brushed Motor	DigiKey	1528-2589-ND	1	\$2.95	\$2.95
Spool of Thread	Amazon	B000PSBYBG	1	\$1.87	\$1.87
Baker's Twine 33 ft	Amazon	B00KC09XY2	1	\$0.49	\$0.49
3D Printed Motor Stand PLA	RPL	N/A	1	\$7.40	\$7.40
3D Printed Drive Shaft PLA	RPL	N/A	1	\$1.80	\$1.80
3D Printed Support Pin PLA	RPL	N/A	1	\$1.80	\$1.80
Wire Kit	Amazon	B07PQKNQ22	1	\$2.17	\$2.17
Arduino Uno	DigiKey	1050-1024-ND	1	\$20.90	\$20.90
Beard board	Newark	79X3922	1	\$2.71	\$2.71
AA Batteries	McCarr-Master	71455K58	1	\$0.40	\$0.40
4-AA Battery Holder	Jameco	216187	1	\$1.75	\$1.75
5in x 7in Cardboard	RPL	N/A	6	\$0.11	\$0.66
Tongue Compressor	RPL	N/A	3	\$0.03	\$0.09
Duct Tape	Wegmans	N/A	1	\$0.99	\$0.99
SuperGlue	Wegmans	N/A	1	\$1.99	\$1.99

Total Cost of Purchased Items: **\$18.23**

Total cost of all items: **\$51.34**