Category	Vendor	Item Number	Item Description	Quantity Per Package	Cost Per Package	Number of Packages	Item Total Cost	Link	Comments
Power	Amazon	B00451Y26I	Energizer 9V Bat	1	$5.89	1	$5.89	https://www.ama	- 9V Battery - large, requires battery pack, would like to replace
	Amazon	B07BXBS93X	LAMPVPATH (Pa	2	$5.99	1	$5.99	https://www.ama	- 9V Battery Holder - also large, has strayed wires that break off quickly - used for mouse 4.4
	Digikey	609-3918-ND	TERM BLK 2P SI	1	$0.75	3	$2.25	https://www.digik	- Terminal Block Connector - Works well, prefer JST to avoid wire to board altogether - used for mouse 4.4
Motor Related	Adafruit	3757	Skinny Wheel for	1	$2.50	2	$5.00	https://www.adafi	- Wheels, 55.9mm diameter - for DAGU motor shafts - unused
	Pololu	1087	Black plastic whe	2	$4.95	1	$4.95	https://www.polol	- Wheels, 32mm diameter, 3mm D output shaft - works well, relatively small - used for mouse 4.4
	Digikey							https://www.digik	- big digikey wheels, 66mm diameter - also for DAGU motor shafts - unused
	Servocity	638097	Gear Motor with I	1	$19.99	2	$39.98	https://www.servo	- Gear motors, 90rpm w/ encoders - works well, mouse rather slow at 90rpm - firm gears at 90rpm - used for mouse prototype
	Servocity	638103	Gear Motor with I	1	$19.99	2	$39.98	https://www.servo	- Gear motors, 900rpm w/ encoders - works well, mouse speed just right w/ adjustment - loose gears, prone to shifting around - used for mouse 4.4
	Digikey	296-9519-5-ND	IC MTR DRV BIP	1	$4.29	1	$4.29	https://www.digik	- H Bridge, 7V supply min - works well - used for mouse 4.4
Ball Caster, nuts, screws	Adafruit	3948	20mm Height Me	1	$1.95	1	$1.95	https://www.adafi	- Ball caster, small but wide mount - unused
	Mouser							https://www.mou	- big ball caster for OPS - unused
	Servocity	632282	M1.6 x 8mm with	6	$2.99	2	$5.98	https://www.servo	- M1.6 screws, bracket to PCB, 8mm - just right size for 3D printed bracket to PCB - used for mouse 4.4
	Servocity	632276	M1.6 x 4mm with	6	$2.99	2	$5.98	https://www.servo	- M1.6 screws, brackets to motors, 4mm - just right size for ServoCity motors - used for mouse 4.4
	Pololu	950	Ball Caster Plast	1	$2.49	1	$2.49	https://www.polol	- metal ballcaster 3/8" - came w/ rusted ball, otherwise works well - used for mouse 4.4
	McMaster-Carr	95610A310	M2.0 Plastic Was	100	$4.73	1	$4.73	https://www.mcm	- M1.6 washers - needed to prevent screwhead contact w/ PCB traces - unused
	Amazon	B09SWZ2XSF	M1.6 x .35 Hex N	100	$9.48	1	$9.48	https://www.ama	- Nuts for M1.6 screws - works well, just right size - used for mouse 4.4
IR Sensing	Digikey	1080-1159-ND	PT334-6C	1	$0.40	3	$1.20	https://www.digik	- IR Reciever used in OPS - Arduino reads every receiver differently on mouse 4.4 - may be caused by soldering angle or manufacturing error - used for mouse 4.4
	Digikey	475-2919-ND	SFH 4545	1	$0.75	3	$2.25	https://www.digik	- IR Emitter used in OPS - maybe causing reading issues together w/ receiver - soldering angle may be adding error - used in mouse 4.4
	Digikey	2019-RK73B2AT	RES 330 OHM 5	1	$0.10	6	$0.60	https://www.digik	- 330 Ohm Resistor, SMD 0805 - works well, easy to solder - unused
	Digikey	RNCP0805FTD1	RES 10K OHM 1	1	$0.10	6	$0.60	https://www.digik	- 10k Ohm Resistor, SMD 0805 - works well, easy to solder - pull-down resistor for receiver - used in mouse 4.4
	Digikey	RNCP0805FTD2	RES 200 OHM 1	1	$0.10	6	$0.60	https://www.digik	- 200 Ohm Resistor, SMD 0805 - works well, easy to solder - current limits emitter - used in prototype mouse
	Digikey	2019-RK73H2AT	RES 130 OHM 1	1	$0.10	6	$0.60	https://www.digik	- 130 Ohm Resistor, SMD 0805 - works well, easy to solder - current limits emitter - used in mouse 4.4
	Digikey	1276-1003-1-ND	CAP CER 0.1UF	1	$0.10	6	$0.60	https://www.digik	- 0.1uF capacitor, SMD 0805 - works well, easy to solder - paralell w/ emitter to increase refresh rate? - used in mouse 4.4
	Digikey	1276-1244-1-ND	CAP CER 4.7UF	1	$0.10	6	$0.60	https://www.digik	- 4.7uF capacitor, SMD 0805 - works well, easy to solder - paralell w/ emitter to increase refresh rate? - used in mouse 4.4
Microcontroller or Processor	Amazon	B07R9VWD39	Mini Nano V3.0 A	1	$12.99	1	$12.99	https://www.ama	- Arduino Nano - works well, comes w/ oxidized pins- required cleaning w/ alcohol - rather large, to be replaced w/ different controller - used in mouse 4.4
Connectors	Digikey	S7013-ND	CONN HDR 15PI	1	$0.98	2	$1.96	https://www.digik	- 15pin header for Arduino - works well, very tall - allows for components to be placed under arduino - used in mouse 4.4
PCB	JLC PCB	n/a	PCB prototype:Y	5	$2.00	1	$2.00	https://jlcpcb.com	- solid and cheap PCB vendor - no issues so far, purple nice and deep purple - used in mouse 4.4
						total cost:	$54.61		
	resistors:	https://www.digikey.com/en/products/filter/chip-resistor-surface-mount/527?s=N4IgjCBcoExaBjKAzAhgQwM4FMA0IB7KAbXADYBWAFgGYQBdfAB wBcoQBIFgJwEsA7AOYgAvxjBI4IJJDRY8hEiBoBOGjBUNmbSJx4DhYxDAAMADgpSZcnPIKRSYEwAIA1gHkAFgF1MWkKzsAKr8vCzuyACy2KYAK7c2KL4ALRw0NJQPHEK9qSW9EYpmhky2biKEIVG6aSJmLyYLATc-pIZvAAm7CIOENrsIPgsAJ5MSbqxSPgAjqODIIJAA
	headers:	https://www.digikey.com/en/products/filter/rectangular-connectors/headers-receptacles-female-sockets/3157s=N4IgCBcoGwJxVAYygMwIYBsDOBTANCAPZQDaIALGGABxwDsIAuoQA4AuUIAyuwE4BLAHYBzEAF9CNGohApIGHAWJkQDAKxpAzMzadIP8sLGSQAWgBMs%2BfwCuykpHLrmpswmhyodh6ohM3GGfvPmlCR3IdANMgzwEAEy4zMAAGCD0uEEJ2AE9WXC50bBRxc5A