## 1 Bill of Materials

Part	Part No.	Supplier and Website	Qty.	Unit Price	Currency	Unit Price (CAD)	Price
	Elegoo Nano board						
Nano Microcontroller	CH340/ATmega328P, closest to A000005 Arduino product	Arduino https://store.arduino.cc/usa/arduino-nano	1	22	USD	\$27.50	\$27.50
PLA Filament	/tooosoo/waamie product	The dame in the street of the	·		000	\$27.00	ψ21.00
(chassis, wheels, clips, gears)	N/A	MECH 223 Price Guidelines	80g	\$0.04/g	CAD	\$0.04/g	\$3.20
Tight-Tolerance			Ŭ				
Multipurpose O1 Tool		Fastenal https://www.fastenal.					
Steel Rod, 3.88mm Diameter x 915mm	47764	com/products/details/47764? term=O1+Steel+Drill+Rod&pageno=3	17.56"	\$4.63/3ft	CAD	\$4.63/3ft	\$6.78
		10000 D 10000 D 1000 D	76mm x 76mm	\$ 1.00.01C		<b>+</b>	<b>\$</b>
		eplastics http://www.eplastics.com/ACRY24470-	plate + 85mm x	\$46.96			
1/8" Acrylic Sheet	ACRY24470.187PM24X48	187PM24X48	40mm plate	/1152in^2	USD	\$58.7/1152in^2	\$0.72
Steel Sheet Metal (0.024")	S124	Metals Depot https://www.metalsdepot.com/steel- products/steel-sheet	5.49in^2	\$9.24/2ft^2	USD	\$11.55/2ft^2	\$0.22
		Mouser https://ca.mouser.com/ProductDetail/Keystone- Electronics/92?					
Cylindrical Battery		qs=sGAEpiMZZMt13fpse6CWDYVh9FApKpUCF%					
Holder	534-092	2fjeT9O8Klw%3d	8.00	0.53	CAD	\$0.53	\$4.26
PM 4.5 V DC Motor	FC 2005A 2470	MECH 222 Drive Cuidelines	2.00	2.00	CAD	¢2.00	ec 00
Mabuchi	FC-280SA 2470	MECH 223 Price Guidelines Lee's Electronics https://leeselectronic.	2.00	3.00	CAD	\$3.00	\$6.00
Subminiature Relay	HK 3FF	com/en/product/3192.html	3.00	2.00	CAD	\$2.00	\$6.00
Photoresistor 5516							
100V 540nm Light 5~10k Dark 500k	Photoresistor 5516 100V 540nm Light 5~10k Dark 500k DE4200	Dipmicro http://www.dipmicro.ca/store/PHRES-5516	1.00	0.38	CAD	\$0.38	\$0.38
		Mouser https://ca.mouser.com/ProductDetail/E- Switch/TL3305AF260QG?					
		qs=sGAEpiMZZMsgGjVA3toVBKeJCRa1nG8XqQWVbJ3					
Switch	TL3305AF260QG	%2fajg%3d	2.00	0.26	CAD	\$0.26	\$0.52
		Lee's Electronics https://leeselectronic.					
LED's	5588	com/en/product/5588.html? search_query=LED+clear+orange&results=3	2.00	\$1/5	CAD	\$0.20	\$0.40
LLD's	3300	Mouser https://ca.mouser.com/Passive-	2.00	\$175	CAD	\$0.20	\$0.40
		Components/Resistors/Through-Hole-					
370 ohm resistor	MF1/4DC3700F	Resistors/Images/_/N-7h7z5?P=1z0wl28	3.00	0.08	CAD	\$0.08	\$0.23
		Mouser https://ca.mouser.com/ProductDetail/Vishay-BC-Components/SFR2500005602FR500?					
		qs=sGAEpiMZZMsPqMdJzcrNwsdig2g%					
56 kohm resistor	SFR2500005602FR500	252bAcehw2AmwomhBHQ%3d	2.00	0.15	CAD	\$0.15	\$0.30
Battery Clip	HH-3449	Mouser https://ca.mouser.com/Power/Battery-Holders- Clips-Contacts/Images/_/N-cicxg?Nao=200	1.00	1.66	CAD	\$1.66	\$1.66
Circuit Boards	PC-3	All Electronics https://www.allelectronics.com/item/pc- 3/solderable-perf-board-2-1/2-x-3-1/8/1.html	1 (split in half)	1.50	USD	\$1.88	\$1.88
Circuit Boards	PC-3	Mouser https://ca.mouser.com/productdetail/?	r (spiit in riaii)	1.50	030	\$1.00	\$1.00
Diodes	1n 58 18	qs=JV7lzlMm3yJEIYWKtht%2FsQ%3D%3D	3.00	0.38	CAD	\$0.38	\$1.15
		Lee's Electronics https://leeselectronic. com/en/product/15544.html?					
Accelerometer and		search_query=Accelerometer+and+Gyro+Sensor+MPU-					
Gyro Sensor	MPU-6050 GY521	6050+GY521&results=1	1.00	14.50	CAD	\$14.50	\$14.50
9V Duracell Battery		Walmart https://www.walmart.ca/en/ip/duracell-coppertop- 9v/6000016956627	1.00		CAD	\$2.74	\$2.74
Miscellaneous	N/A	MECH 223 Price Guidelines	N/A	N/A	N/A	N/A	\$2.00
Elastic Bands							
Hot Glue							
M3 Screws			6				
M3 Nuts			5				
Pop Bottle							
Paint							
Paper							
Bugles							
Yarn							
Electrical Tape							
Wire							
Headers							
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						Total	\$80.43

Table 1: Bill of Materials