

Group	Qty	Description	Vendor	Notes
Electronics	1	Arduino Nano	<a href="#">Amazon</a>	You can go the cheap route and get a knockoff brand.
Electronics	1	Button- 12mm, Non Latching, SPST	<a href="#">Amazon</a>	
Electronics	1	Circuit Board - 6 x 8cm	<a href="#">Amazon</a>	No longer available from Amazon, but you can see what I used.
Electronics	A/R	Connector - Terminal Block	<a href="#">Amazon</a>	Not required, but makes things nice and neat
Electronics	A/R	Header Pins - 2.54mm	<a href="#">Amazon</a>	Not required, but makes things nice and neat
Electronics	1	Power Supply - 12V, 2A	<a href="#">Amazon</a>	
Electronics	1	Servo- SG90	<a href="#">Amazon</a>	Only if you need a pen lift
Electronics	2	Stepper Motor - NEMA 17, Short Body	<a href="#">Amazon</a>	
Electronics	2	Stepper Motor Driver - TMC2130, v3.0 w SPI	<a href="#">Biqu</a>	You "should" be able to use another driver. But, you will have to modify wiring and Arduino code.
Frame	2	Aluminum Extrusion - 20 x 20 x 422mm long	<a href="#">Misumi</a>	These have a black anodized coating.
Frame	2	Aluminum Extrusion - 20 x 20 x 614mm long	<a href="#">Misumi</a>	These have a black anodized coating.
Frame	1	Dry Erase Board - 24" x 18", Porcelain	<a href="#">Amazon</a>	
Frame	1	MDF - 1/2" x 2' x 4'		Can get this at any lumber yard.
Misc	1	Contact Cement		I used WeldWood, but it left bumps that showed up in dry erase board. Try a 3M spray.
Misc	1 pkg	Markers - Wet Erase, Fine Tip	<a href="#">Amazon</a>	
Misc	A/R	Screws - M2, SHCS, Assorted Lengths	<a href="#">Amazon</a>	
Misc	A/R	Screws - M3, FHCS, 10mm Long		Only used to attach lid to enclosure.
Misc	A/R	Screws - M3, SHCS, Assorted Lengths	<a href="#">Amazon</a>	
Misc	A/R	Screws - M5, Button Head, Assorted Lengths	<a href="#">Amazon</a>	To attach 3D printed parts to aluminum extrusion.
Misc	A/R	Screws - M5, FHCS, 16mm Long	<a href="#">Amazon</a>	To attach aluminum extrusions to MDF board.
Misc	1	Spring		The one I used is 0.66" lg, 0.178" OD, 0.015" wire dia, 8 turns. Try one out of a ink pen.
Misc	A/R	T Nuts - Hammer Head, M3 + M5	<a href="#">Amazon</a>	These should be specifically for 20x20 aluminum extrusions.
Misc	A/R	Threaded Inserts - Heat Set, M2	<a href="#">Amazon</a>	
Misc	A/R	Threaded Inserts - Heat Set, M3	<a href="#">Amazon</a>	
Misc	2	Washer - 5 x 8 x 0.5mm	<a href="#">Amazon</a>	These are used to separate the stacked idler pulleys. You could probably print some that would work.
Pulleys	4	Ball Bearing - F695-RS	<a href="#">KB3D</a>	Double these to make one pulley where the flat side of the belt is on the inside.
Pulleys	6	Idler Bearing - Toothed, 2GT, 6mm	<a href="#">KB3D</a>	
Pulleys	2	Pulley - 2GT, 6mm width, 16 tooth	<a href="#">KB3D</a>	Attach to stepper motors.
Pulleys	4	Shaft - 5 x 30mm	<a href="#">KB3D</a>	
Pulleys	2	Shaft - 5 x 40mm	<a href="#">KB3D</a>	
Pulleys	50	Timing Belt - 2GT	<a href="#">KB3D</a>	Sold in multiples of 100mm.
Rails	1	Linear Rail - LWL7B, 40mm long	<a href="#">Amazon</a>	
Rails	1	Linear Rail - MGN12H, 400mm long	<a href="#">Amazon</a>	
Rails	2	Linear Rail - MGN12H, 500mm long		Amazon no longer sells the 500mm version that I bought. But, any MGN12H rail "should" work.