

Links to Vendors

Materials acquired through vendors

1. Arduino CNC Kit – Amazon - <https://www.amazon.com/dp/B072N4FMRN/>
2. MG90S 9g Metal Gear Digital Micro Servo – Amazon – <https://www.amazon.com/dp/B07NV7SD3F>
3. 20 Teeth 5mm bore 6mm Width 20T Timing Belt Pulley Wheel – Amazon - <https://www.amazon.com/dp/B077GNZK3j>
4. Toothless Bore 5mm Aluminum Timing Belt Idler Pulley – Amazon - <https://www.amazon.com/dp/B07RV2T54M>
5. GT2 Open Timing Belt 2mm Pitch 6mm Width – Amazon - <https://www.amazon.com/dp/B08974S1CC>
6. 11.8 x 8.2 x 0.15-in Board – Amazon – <https://www.amazon.com/dp/B0BF8PZ9WX>
7. DC 24V 10A 240W Power Supply Universal – Amazon – <https://www.amazon.com/dp/B078RYWZMH>
8. Compression Spring 0.039in Diameter – Amazon – <https://www.amazon.com/dp/B07MDVTJKJ>
9. Compression Spring 0.047in Diameter – Amazon – <https://www.amazon.com/dp/B076LVS4J3/>
10. 2 x 4 x 48-in Stud – Lowes - <https://www.lowes.com/pd/2-in-x-4-in-x-8-ft-Whitewood-Pre-Cut-Stud-Common-1-5-in-x-3-5-in-Actual/1000525943>
11. 3/8 x 48-in Round Rod – True Value – <https://www.truevalue.com/round-steel-rod-3-8-x-48-in>
12. 1/4 x 36-in Round Rod – True Value – <https://www.truevalue.com/round-rod-stainless-steel-1-4-x-36-in>
13. 1/8 x 36-in Round Rod – True Value – <https://www.truevalue.com/round-steel-rod-1-8-x-36-in>
14. 5/8 x 5/8 x 2.5-in Wood Dowel – True Value – <https://www.truevalue.com/shop/building-materials/lumber/wood-dowel-rods>
15. 1x1x1-in Wood Dowel – True Value – <https://www.truevalue.com/shop/building-materials/lumber/wood-dowel-rods>
16. 3/8 X 1/2 X 1-in Sleeve Bearing – True Value – <https://www.truevalue.com/>
17. M5 X 25mm Hex Head Lag Bolt – True Value – <https://www.truevalue.com/>
18. M5 Washer – True Value – <https://www.truevalue.com/>
19. #8 UNC-32 x 1/2-in Machine Screw – True Value – <https://www.truevalue.com/shop/hardware/fasteners/screws/machine-screws/machine-screw-stainless-steel-phillips-pan-head-8-32-x-1-5-in-100-pk>
20. #8 UNC-32 Nut – True Value – <https://www.truevalue.com/shop/hardware/fasteners/nuts/finished-hex-nut-1-2-13>
21. #8 UNC-32x 5/8-in Machine Screw – True Value – <https://www.truevalue.com/shop/hardware/fasteners/nuts/hex-nut-steel-with-yellow-zinc-dichromate-finish-heat-treated-coarse-thread-5-8-in-11-25-pk>
22. Sharpie Marker – True Value - <https://www.truevalue.com/pro-permanent-marker-black>
23. 3D-Printed 2.5-Axis Movement Assembly – 3D Printed – At Home
24. 3D-Printed Marker Holder Assembly - 3D Printed – At Home
25. 3D-Printed 1/4-in Rail Brace - 3D Printed – At Home
26. 3D-Printed GT2 Pully Clamp - 3D Printed – At Home

Links to Helpful Resources

Clamping Device

With the following YouTube video at 5:00, our team reverse engineered a similar clamping device similar to this one to be able to hold our marking medium for the Graffiti Bot.

- [*https://www.youtube.com/watch?v=CW3tCkms7oM*](https://www.youtube.com/watch?v=CW3tCkms7oM)