project's design requirements. Below is a comprehensive list of quantities of materials

and devices used in the construction of the cat feeder prototype:

Table 1: Bill of materials (items marked N/A are already owned, or being recycled from prior

projects)

Material/Component	Amount (#)	Projected Cost (USD)	Actual Cost (USD)
3.5-in Fans	3 pcs	$15.27	N/A
Peltier Device	4 pcs	$14.99	N/A
Heat Sinks	4 pcs	$8.99	N/A
Wood	1in.x 12 in.x 8 ft.	N/A	N/A
Arduino Uno Controller	1 pc	$16.99	N/A
TB6600 Stepper Motor Driver	1 pc	$10.89	$10.89
Stepper Motor 23HS22-2804S	1 pc	$25.99	N/A
Assorted Wires	-	N/A	N/A
Thermal Cutoff Switch	1 pc	$8.99	N/A
Silicone Dielectric Compound	.05 oz	N/A	N/A
Double Reflective Insulation	1.5x11in x 5 pc	$0.34	$0.34
Reflective Foil Tape	½ Roll	$2.49	$2.49
Spray Foam Insulation	2 oz	$0.74	$0.74
Loctite	½ tube	$3.29	$3.29
Liquid Nails	1 oz	$0.99	$0.99
CA Glue	-	N/A	N/A
2-part Epoxy	⅛ tube	$1.53	$1.53

Automatic Wet Food Cat Feeder

PETG Filament	1 kg	$14.99	$14.99
6x2mm Neodymium Magnets	6 pcs	$0.24	$0.24
120V AC to 12V DC Power Supply	1 pc	$19.49	$19.49
Hall-Effect Sensors	3 pcs	$1.05	$1.05
Lever Wire Connectors	8 pcs	$3.20	$3.20
Dev Button	1 pc	N/A	N/A
Power Switch	1 pc	N/A	N/A
9V Battery	1 pc	N/A	N/A
AC Power Cable	1 pc	N/A	N/A
Aluminum Sheet Metal	128.5 sq in	N/A	N/A
Aluminum Rod	1 pc	N/A	N/A
¼" Machine Screws	16 pc	$6.08	N/A
¼" Nuts	16 pc	$2.19	N/A
¼" Washers	16 pc	$0.96	N/A
Brass Rod	1 pc	N/A	N/A
25 Pitch Roller Chain	1.5 ft	$2.54	N/A
Martin 25B9	1 pc	$12.97	N/A
Martin 25BS14-1/2	1 pc	$5.40	N/A
Brass Plated Wood Screws	19	$1.82	N/A
Wood Glue	-	N/A	N/A
Ball Bearings	2 pcs	$1.09	N/A
1.5" Wooden Dowels	8 pcs	N/A	N/A
Total Cost	**-**	**$183.51**	**$59.24**