Raspberry Pi CNC Machine Cost And Part List:

Materials Cost:
- My tech teacher and I paid half each. This can be different a price depending on what you do. Also, got the sheets at Lenco Lumber.
  - ½ inch 5X5 sheet Baltic Birch Plywood ($27.77)
  - ¾ inch 5X5 sheet Baltic Birch Plywood ($44.77)
- (55) cross nuts, (10) t-nuts and (100) 1-½ inch phillips head bolts at Hector's Hardware. I don't know how much each of these cost but I know the total.
  - Hardware ($47.85)
- MDF 4X8 sheet at The Home Depot ($32.00)
- Spring assortment for anti-backlash nuts at The Home Depot ($4.37)
- (4) 5/16 Hex nuts at The Home Depot ($1.20)
- (2) 5/16 threaded rod 18TPR 36 inches long at The Home Depot ($5.26)
- (50pk) 5/16 hex bolts ¾ inch long for angle aluminum carriages at The Home Depot ($6.78)
- (100pk) 5/16 hex nuts for angle aluminum carriages at The Home Depot ($15.97)
- (7) 2X4's 8ft long at The Home Depot ($16.94)
- (Optional) Bucket Head Wet/Dry VAC at The Home Depot ($24.00)
- (5ft) ¾ inch angle aluminum ¼ inch thick at The Home Depot or at any metal store (~$10.00)
- (13ft) 1 inch angle aluminum ¼ inch thick at The Home Depot or at any metal store (~$18.00)
- (30) Skate bearings for carriages on Ebay.com ($20.00)
- (4) roller casters at Harbor Freight, if you are going to build the cart ($17.36)
- (1) ¼ inch trim router at Harbor Freight with %20 off ($26.00)
- (18) 1-½ inch long sheet metal screws at The Home Depot ($2.00)
- (58) ¾ inch long flat head stainless steel screws, (they don't have to be stainless steel that's just what i had) at Harbor Freight ($35)
- (12) 1 inch long wood screws to hold the anti-backlash nut housings, at The Home Depot ($5.00)
- (18) ¼ by ¾ inch long flat head phillips head screws and nuts at The Home Depot ($7.67)
- (4) Nylon standoffs any size 1-½ to 2 inches for the Z-axis stepper motor ($2.79)
- (4) sheet metal screws 1-¼ inch long ¾ inch wide to hold down the stepper motor for Z-axis at The Home Depot ($4.96)
- (8) ¾ inch long screws to hold in the X and Y axis stepper motors at The Home Depot ($3.98)
- (1) sheet of ¼ inch plywood for the enclosure to the cart at The Home Depot ($20.00)
- (4) 6 inch long bolts ¾ inch wide construction bolts at The Home Depot ($10.00)
- (6) 2-½ inch long ¾ inch phillips screws at The Home Depot ($3.95)
Total: ($413.62)

Electronics cost:
- (1) TinyG v8 Microcontroller board from Synthetos.com ($136.00 including shipping)
- (3) NEMA 23 stepper Motors from Stepperonline.com +
- (2) ¼ inch to 5/16 flexible couplers from Stepperonline.com +
- (1) ¼ inch to ¼ inch flexible coupler from steperonline.com ($87.78 including shipping)
- (1) Optional Raspberry Pi on Amazon.com ($30-$35)
- (1) 24 volt power supply on Ebay.com ($27.00)
- (Optional) TV monitor for displaying the Raspberry Pi, I found one laying around my house
  - Total: ($285.78)

Note: This sheet will be updated as new additions are added to the machine.