Quadcopter Notes:

* Aluminum tubing
  + ½ x ½ x 1/16” square tubing for rotor supports
    - McMaster Carr: 6546K49 ($7.50 for 3ft)
      * 200g weight (0.43 lbs)
* Aluminum sheet
  + 6” x 6” x 1/16” sheet metal for frame
    - McMaster Carr: 89015K183 ($5.66 for 1)
      * Total of 2 needed
      * 100g weight (0.22 lbs)
* Motors (x4)
  + Turnigy Park450 Brushless Outrunner 1200kv
    - $17.55 each - $70.20 for 4
    - 66g weight each – 264g weight for 4
  + NTM Prop Drive Series 28-26A 1200kv / 286w (short shaft version)
    - $14.99 each
    - 57.6g each
    - NTM Prop Drive 28 Series Accessory Pack (For mounts and prop adapters)
    - 940g of thrust with 3S battery and 8x4.5 prop (100W, 9A)
* Props (2x CW and 2x CCW)
  + 8045 SF Props 2pc Standard Rotation/2 pc RH Rotation (Black)
    - $3.15 for 4 props
    - 45g weight
  + Gemfan 6030 Multirotor Propellers One Pair CW CCW (Black)
    - Total of 2 packs needed
    - $3.14 for 4 props
    - 24g weight
* Battery
  + Turnigy 2200mAh 3S 20C Lipo Pack (11.1V)
    - $8.50
    - 248g weight
* Rubber Sheet
  + Amazon 4 Inch X 4 Inch Square Sponge Neoprene Sample Adhesive/Plain - 1/4 IN, 1/8 IN, 1/16 IN. Thick
    - $11.95
    - ~30g weight
* Speed Controllers (x4)
  + TURNIGY Plush 18amp Speed Controller
    - $48.20 for 4 Speed Controllers
    - 132g total weight
* Nuts and Bolts
  + McMaster 91251A347 1” 10-32 Black Oxide Alloy Steel Socket Head Cap Screws
    - 50 Quantity
    - $8.10 for the package
  + McMaster 91251A347 10-32 Nylon Hex Locknuts.
    - 100 Quantity
    - $3.30 for the package
  + McMaster 91251A112 4-40 5/8” Socket Head Cap Screws (small screws)
    - 100 Quantity
    - $8.12 for the package
  + McMaster 90631A005 4-40 Nylon Hex Locknuts (small nuts)
    - 100 Quantity
    - 2.74 for the package
* Spacers for Main plate
  + McMaster 92510A318 1/2” .192” inner diameter aluminum spacer (should fit 10-32 bolt)
  + $1.11 each (need ~4)
* Tools
  + McMaster 7158A3 Hex Key Set $4.12
  + McMaster 7130K12 4” 100x Zip Ties $2.27
* Battery Charger