

Please find our updated parts list with the total cost of each component/order. We have added soldering boards to our request, as we need to solder all our components together once the drone design is completed.

The final requested amount can be found in *Table 3* (CA\$ 1230.32).

Please let us know how this looks.

Thank you,

Jun Ho & Team

Table 1 - Purchased Drone Swarm Parts List

Product Name	Image	Purpose	Unit \$	Quant.	Total Cost
Invoice 1 - DigiKey Order #93846750					
[1] XPLR-AOA-1 (BLE AOA Board)		Antennas for BLE AOA system.	\$373.11	1	\$373.11
[2] TN0702N3-G		Drone parts (mosfet for motor control)	\$1.9428	25	\$48.57
[3] 1N5817-TP		Drone parts (diode for motor control)	\$0.39	25	\$9.75
Total for invoice 1 (in CAD, incl. tax & shipping)					\$487.52
Invoice 2 - DigiKey Order #93717817					
[4] Seeed Studio XIAO nRF52840 Sense (Arduino Board)		Main microcontroller for drone & BLE module	\$25.06	4	\$100.24
Total for invoice 2 (in CAD, incl. tax & shipping)					\$113.27
Invoice 3 - Amazon Order #CA23DB6UM68I					
[5] Fytoo 5Pcs 3.7V 1200mah Upgrade Li-Polymer Battery		Drone parts (battery)	\$35.99	1	\$35.99
Total for invoice 3 (in CAD, incl. tax & shipping)					\$40.67
Invoice 4 - Amazon Order #CA2IMT3OLKI					
[6] MT3608 DC-DC boost converter (pack of 6)		Drone parts (Microcontroller voltage)	\$10.49	1	\$10.49
Total for invoice 4 (in CAD, incl. tax & shipping)					\$11.85

Table 1 - Cont'd

Product Name	Image	Purpose	Unit \$	Quant.	Total Cost
Invoice 5 - Amazon Order #CA219KA2LWI					
[7] YoungRC 8520 Coreless Motor 8.5 x 20mm Brushed Motors + 55mm CW CCW Propeller		Drone parts (motor + propellers)	\$19.27	4	\$77.08
Total for invoice 5 (in CAD, incl. tax & shipping)					\$77.08
Invoice 6 - Amazon Order #CA2CVEQ7NC4I					
[8] 3d-printing filament		Required to 3d-print frame	\$33.99	1	\$33.99
Total for invoice 6 (in CAD, incl. tax & shipping)					\$38.41
Invoice 7 - Amazon Order #CA2ZO8R306GI					
[9] Printed Circuit Protoboard		Drone parts must be soldered together	\$21.99	1	\$21.99
Total for invoice 7 (in CAD, incl. tax & shipping)					\$24.85
Total for purchased parts (CAD)					\$793.65
Invoice 8 - DigiKey Order #94624780					
[1] XPLR-AOA-1 (BLE AOA Board)		Antennas for BLE AOA system.	\$373.11	2	\$740.42
Total to be purchased (in CAD, incl. tax & shipping)					\$836.67

Table 3 - Total requested reimbursement (CAD)

Total purchased	CA\$ 100.00 / member	Grand Total
\$1630.32	\$400.00	\$1230.32

Links to Products:

1. https://www.digikey.ca/en/products/detail/u-blox/XPLR-AOA-1/14549114?fbclid=IwAR3k5VZjX66F7ShL8c7aWn6LkvkIc2r7w_MWlxSzp_wnh6KT42nRtjb_iG4
2. <https://www.digikey.ca/en/products/detail/microchip-technology/TN0702N3-G/4902376>
3. <https://www.digikey.ca/en/products/detail/micro-commercial-co/1N5817-TP/950394>
4. <https://www.digikey.ca/en/products/detail/seeed-technology-co-ltd/102010469/16652896?s=N4IgTCBcDaIIwAYwMQFgGwE4QF0C%2BQA>
5. https://www.amazon.ca/Fytoo-Li-polymer-Batteries-Quadcopter-Replacement/dp/B0795CJWPB/ref=asc_df_B0795CJWPB/?tag=googleshopc0c-20&linkCode=df0&hvadid=335213580686&hvpos=&hvnetw=g&hvrand=2668537867823253935&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcndl=&hvlocint=&hvlocphy=9000929&hvtargid=pla-784912314206&psc=1
6. https://www.amazon.ca/AIHJCNELE-MT3608-Adjustable-Transformer-Stabilizer/dp/B09Z38RV4H/ref=sr_1_3?keywords=MT3608&qid=1668570377&qu=eyJxc2MiOiIzLjU3IiwicXNhIjoiMi43OCIsInFzcCI6IjMuMTEifQ%3D%3D&s=electronics&sr=1-3&th=1
7. https://www.amazon.ca/YoungRC-Coreless-Brushed-Propeller-Quadcopter/dp/B078NL9KQQ/ref=sr_1_12?cid=2WGL7HZKSPT86&keywords=drone+dc+motor&qid=1668567764&qu=eyJxc2MiOiIyLjk0IiwicXNhIjoiMC4wMCIsInFzcCI6IjAuMDAifQ%3D%3D&refinements=p_85%3A5690392011&rnid=5690384011&rps=1&sprefix=drone+dc+motor%2Caps%2C119&sr=8-12
8. <https://www.amazon.ca/AMZ3D-1-75mm-Printer-Filament-Black/dp/B01BZ5ND8O>
9. https://www.amazon.ca/gp/product/B074X2GDH2/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1