I have prepared a list of Items to Purchase with their links and selection preferences.

- [Arduino Uno](https://fr.aliexpress.com/item/high-quality-One-set-UNO-R3-CH340G-MEGA328P-for-Arduino-UNO-R3-NO-USB-CABLE/32697443734.html?spm=a2g0s.13010208.99999999.259.56913c004UcQuw) ( Quantity: 1)  [ Link selection : 1 ]

- [Arduino Uno](https://fr.aliexpress.com/item/high-quality-One-set-UNO-R3-CH340G-MEGA328P-for-Arduino-UNO-R3-NO-USB-CABLE/32697443734.html?spm=a2g0s.13010208.99999999.259.56913c004UcQuw) Usb Wire ( Quantity: 1)  [ Link selection : 2 ]

- [Electrical Harness](https://www.aliexpress.com/item/Dupont-Jumper-Wire-10CM-20CM-30CM-for-Arduino-Breadboard-Cable-Line-Male-to-Male-Male-to/32911287776.html?spm=a2g0s.9042311.0.0.42d64c4dcOlftk) ( Quantity: 1)  [ Link selection : 8 ]

- [Ball roller joints](https://fr.aliexpress.com/item/Ball-Head-Holder-Tie-Rod-End-3mm-Hole-M4-4mm-Thread-25mm-Length-Link-Rod-End/32659618985.html?spm=a2g0s.13010208.99999999.265.56913c004UcQuw) M4 ( Quantity: 2) [ Link selection : 1]

- [Servo](https://fr.aliexpress.com/item/1-pi-ces-MG946R-mise-niveau-RC-Metal-Gear-Torque-Servo-Pour-Bateau-DE-VOITURE-13/32854187745.html?spm=a2g0s.13010208.99999999.271.56913c004UcQuw)s ( Quantity: 2) [ CAUTION : this servo doesn’t work, use Turnigy TGY-4409MD]

- [USB Camera](https://fr.aliexpress.com/item/100-Degree-No-distortion-Lens-High-speed-30fps-60fps-120fps-Webcam-HD-1080P-Android-Linux-Windows/32736010155.html?spm=a2g0s.9042311.0.0.27426c370wkYTE) High speed  ( Quantity: 1)

- [4 wires resistive touchscreen](https://fr.aliexpress.com/item/11-3-pouce-243-185-4-3-cran-carr-4113001-r-sistance-cran-tactile-livraison-gratuite/32841260011.html?spm=a2g0w.search0104.3.1.36be1d17LaIJEL&transAbTest=ae803_3&ws_ab_test=searchweb0_0%2Csearchweb201602_7_10065_10068_319_317_10696_10084_453_10083_454_10618_10304_10307_10820_10821_537_10302_536_10902_10843_10059_10884_10887_321_322_10103%2Csearchweb201603_56%2CppcSwitch_0&algo_pvid=5e15192f-e157-4b5e-9c73-5366cadeb40e&algo_expid=5e15192f-e157-4b5e-9c73-5366cadeb40e-0) 11.3 inch ( Quantity: 1) [ CAUTION : this touchscreen is too noisy and doesn’t work on this plant. Find another one if you’re interested to use touchscreens instead of a camera]

- [Ball roller joints](https://fr.aliexpress.com/item/2-2-3-3-3-17-4-5-6-8-10mm-Bateau-En-M-tal-Cardan/32923183417.html?spm=a2g0s.13010208.99999999.301.61033c009Aztbf) 4mm to 4mm ( Quantity : 2 ) [ Link Selection: 14]

- [Ball roller joints](https://fr.aliexpress.com/item/2-2-3-3-3-17-4-5-6-8-10mm-Bateau-En-M-tal-Cardan/32923183417.html?spm=a2g0s.13010208.99999999.301.61033c009Aztbf) 4mm to 8mm ( Quantity : 1 ) [ Link Selection: 17]

- [Carbon Fiber Tubes](https://fr.aliexpress.com/item/Ormino-3K-Carbon-Fiber-Tube-for-Drone-diy-Quadcopter-Frame-arm-Landing-Gear-6mm-8mm-10mm/32822916583.html?spm=a2g0w.search0104.3.22.6e239906qGWTor&ws_ab_test=searchweb0_0,searchweb201602_7_10065_10068_319_317_10696_10084_453_10083_454_10618_10304_10307_10820_10821_537_10302_536_10902_10843_10059_10884_10887_321_322_10103,searchweb201603_56,ppcSwitch_0&algo_expid=71381737-6b68-4710-ac92-98f29cf1512f-3&algo_pvid=71381737-6b68-4710-ac92-98f29cf1512f&transAbTest=ae803_3) 8mmx6mmx500mm ( Quantity : 1 ) [ Link Selection: 2]

- [Carbon Fiber Tubes](https://fr.aliexpress.com/item/ORC-3-k-Fiber-De-Carbone-Tube-6mm-8mm-10mm-12mm-14mm-15mm-16mm-RC-Drone/32856131367.html?spm=a2g0s.13010208.99999999.283.61033c009Aztbf) 6mmx4mmx500mm ( Quantity : 1) [ Link Selection: 1]

- [Carbon Fiber Tubes](https://fr.aliexpress.com/item/4pcs-lot-New-Carbon-Fiber-Tube-3K-for-Quadcopter-Multicoptor-3mm-4mm-5mm-7MM-1-meter/32325154808.html?spm=a2g0s.13010208.99999999.289.61033c009Aztbf) 4mmx3mmx500mm ( Quantity : 1 ) [ Link Selection: 2]

- [Plexi Glass S](https://fr.aliexpress.com/item/1-pi-ces-2-10mm-Epaisseur-Effacer-Acrylique-feuille-de-plexiglas-Coupe-En-Plastique-Transparent-Conseil/32969283608.html?spm=a2g0w.search0104.3.93.2d594063MDubzH&transAbTest=ae803_3&ws_ab_test=searchweb0_0%2Csearchweb201602_7_10065_10068_319_317_10696_10084_453_10083_454_10618_10304_10307_10820_10821_537_10302_536_10902_10843_10059_10884_10887_321_322_10103%2Csearchweb201603_56%2CppcSwitch_0&algo_pvid=8e4d45e4-1b4b-4cae-b841-a51823ef6008&algo_expid=8e4d45e4-1b4b-4cae-b841-a51823ef6008-13)heet 40cmx30cmx0.4cm ( Quantity : 1 ) [ Link Selection: 11]

- [Knob](https://www.aliexpress.com/item/WAVGAT-Rotary-Encoder-Module-for-Arduino-Brick-Sensor-Development-Round-Audio-Rotating-Potentiometer-Knob-Cap-EC11/32915420023.html?spm=2114.search0604.3.1.27644510ZmVtfz&ws_ab_test=searchweb0_0,searchweb201602_4_10065_10068_319_317_10696_10084_453_10083_454_10618_10304_10307_10820_10821_537_10302_536_10902_10843_10059_10884_10887_321_322_10103,searchweb201603_56,ppcSwitch_0&algo_expid=67b65ad1-6d3a-429f-9e86-19105f7cc76c-0&algo_pvid=67b65ad1-6d3a-429f-9e86-19105f7cc76c&transAbTest=ae803_3)  ( Quantity : 3 )

- [Ball](file:///C:\Users\JISA-LAP\Desktop\Thesis%20Work\Shopping%20Cart\Ball) Glass 16mm ( Quantity : 1 )

- [Ping Pong Ball White](https://www.aliexpress.com/item/10Pcs-Wholesale-Ping-Pong-Balls-Table-Tennis-Balls-Ping-pong-Pingpong-White-Balls-Chinese/32907991241.html?spm=a2g0s.9042311.0.0.43de4c4dmNbufh) ( Quantity : 1) [ Link Selection: 1]

- [Ping Pong Ball Orange](https://www.aliexpress.com/item/10Pcs-Wholesale-Ping-Pong-Balls-Table-Tennis-Balls-Ping-pong-Pingpong-White-Balls-Chinese/32907991241.html?spm=a2g0s.9042311.0.0.43de4c4dmNbufh) ( Quantity : 1) [ Link Selection: 2]

- [Stainless Steel Ball 38mm](https://www.aliexpress.com/item/304-Stainless-Steel-Hollow-Ball-Seamless-Sphere-Mirror-Ball-Home-Garden-Decoration-Supplies-Yard-Park-DIY/32912355232.html?spm=a2g0s.9042311.0.0.43de4c4dmNbufh) ( Quantity : 1) [ Link Selection: 2]

- [L Corner Bracket](https://www.aliexpress.com/item/10-pcs-2-Holes-Strong-Inside-Corner-Bracket-Gusset-for-3030-Series-Aluminum-Extrusion-Profile-with/32889590986.html?spm=2114.search0104.3.88.7aa257ebYFwQYI&ws_ab_test=searchweb0_0,searchweb201602_7_10065_10068_319_317_10696_10084_453_10083_454_10618_10304_10307_10820_10821_537_10302_536_10902_10843_10059_10884_10887_321_322_10103,searchweb201603_56,ppcSwitch_0&algo_expid=290b1526-d8ac-4aef-a869-e92c80cfda63-12&algo_pvid=290b1526-d8ac-4aef-a869-e92c80cfda63&transAbTest=ae803_3) ( Quantity : 1 ) [ Link Selection: 1]

\*I have been Careful in choosing Dimensions and Prices.

\*I have Chosen Both a Camera and a Restive Touch screen to experiment with both.

\*The Servo that i have chosen is more powerful than what is needed, but it is Very Cheap.

\*I took into consideration that i will be using the Power supply in the lab and Also i assumed that all kind of screws are available in the lab so i didn't include them.

\*Each of these items will come in different dates since they are from different sellers, but they will take at most 40 days.