**Hardware Requirements**

Hardware Parts

**Arduino Mega -2560**

<https://www.amazon.ca/Arduino-A000067-ARDUINO-MEGA2560-REVISION/dp/B0046AMGW0/ref=asc_df_B0046AMGW0/?tag=googleshopc0c-20&linkCode=df0&hvadid=292901727348&hvpos=&hvnetw=g&hvrand=10242935326178180455&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000134&hvtargid=pla-516265455074&psc=1>

**L298N 2A - Two Piece**

<https://www.amazon.ca/gp/product/B07C4B3DL4/ref=ppx_yo_dt_b_asin_title_o01_s00?ie=UTF8&psc=1>

**16-Channel 12 bit PWM/Servo Driver I2c Interface PCA 9685**

<https://www.amazon.ca/Newhail-PCA9685-Channel-Arduino-Raspberry/dp/B08YD8PDLS/ref=sr_1_4?crid=2O3A6VZX8KHJO&keywords=16-Channel+12+bit+PWM%2FServo+Driver+I2c+Interface+PCA+9685&qid=1658687627&s=industrial&sprefix=16-channel+12+bit+pwm%2Fservo+driver+i2c+interface+pca+9685%2Cindustrial%2C77&sr=1-4>

**Pan and Tilt and Camera Rotation**

Pan MG995 -180 Degree

<https://www.amazon.ca/Seamuing-Analog-Digital-Helicopter-Control/dp/B07GRMRH1Q/ref=sr_1_4?crid=1TTHHHG1OJUDL&keywords=Servo+Shaft+MG995&qid=1658686329&sprefix=servo+shaft+mg995%2Caps%2C77&sr=8-4>

Tilt - MG995 -180

<https://www.amazon.ca/Seamuing-Analog-Digital-Helicopter-Control/dp/B07GRMRH1Q/ref=sr_1_4?crid=1TTHHHG1OJUDL&keywords=Servo+Shaft+MG995&qid=1658686329&sprefix=servo+shaft+mg995%2Caps%2C77&sr=8-4>

360 Rotation - MG995 -360

<https://www.amazon.ca/Degree-Continuous-Rotation-Digital-Accessories/dp/B07JRFNTGC>

**Pan and Tilt Parts**

<https://www.amazon.ca/Servo-Mount-Bracket-MG996R-Steering/dp/B07PQ12TXS/ref=asc_df_B07PQ12TXS/?tag=googleshopc0c-20&linkCode=df0&hvadid=459851406710&hvpos=&hvnetw=g&hvrand=13098788810665166377&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000134&hvtargid=pla-737353487171&psc=1>

**Height Adjustment**

**Linear Actuator - to Achieve Height**

<https://www.amazon.ca/gp/product/B08PFVZ7TH/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&psc=1>

**Base - Forward , Backward , Left and RIght**

Side Shaft Gear Motor 100 RPM -12V - 4 Pieces

<https://www.pantechsolutions.net/johnson-side-shaft-geared-motor-made-in-india-12-v-dc-150-rpm>

Side shaft motor clamps

<https://www.amazon.in/INVENTO-Geared-Shaped-Mounting-Bracket/dp/B07W7W2YH7>

Battery

<https://www.amazon.ca/gp/product/B00ME3ZH7C/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&psc=1>

Cables

<https://www.amazon.ca/Elegoo-120pcs-Multicolored-Breadboard-arduino/dp/B01EV70C78/ref=asc_df_B01EV70C78/?tag=googleshopc0c-20&linkCode=df0&hvadid=292982668700&hvpos=&hvnetw=g&hvrand=16109654819644386521&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9000134&hvtargid=pla-362913641420&psc=1>