Aggie Robotics Parts List

${\bf Microcontrollers}$

Item	Unit Price	Quantity	Total Price	Purchase Link
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Adafruit Mo-	\$17.96	20	\$359.20	https://www.adafruit.com/product/1438
tor/Stepper/Serve	0			
Shield				
Arduino Uno	\$24.95	20	\$499.00	https://www.adafruit.com/product/50
Arduino Nano	\$3.95	40	\$158.13	http://amzn.to/2xFsVQf

Boards

Item	Unit Price	Quantity	Total Price	Purchase Link
Solderless Breadboard	\$4.76	100	\$476.00	https://www.adafruit.com/product/239
Solderless Breadboard	\$19.95	5	\$99.75	https://www.adafruit.com/product/443
with Power Universal Perfboard	\$4.46	50	\$223.00	https://www.adafruit.com/product/2670

Components

			Total	
Item	Unit Price	Quantity	Price	Purchase Link
Resistor Kit	\$7.95	1	\$7.95	https://www.sparkfun.com/products/10969
Capacitor Kit	\$6.95	1	\$6.95	https://www.sparkfun.com/products/13698
LED Starter Kit	\$29.95	5	\$149.75	https://www.sparkfun.com/products/13234
Thumb Joystick	\$3.75	50	\$187.50	https://www.sparkfun.com/products/9032
Tactile Button	\$4.95	10	\$49.50	https://www.sparkfun.com/products/10302
Assortment				- ,, - ,- ,-
Magnetic Door	\$2.95	10	\$29.50	https://www.sparkfun.com/products/13247
Switch Set				- ,, , - , - ,
Rocker Switch	\$0.50	50	\$25.00	https://www.sparkfun.com/products/11138
Discrete	\$8.95	5	\$44.75	https://www.sparkfun.com/products/13682
Semiconductor				- ,, , - , - ,
Kit				

Item	Unit Price	Quantity	Total Price	Purchase Link
8 pin socket (3 pack)	\$0.75	5	\$3.75	https://www.adafruit.com/product/2202
16 pin socket (3 pack)	\$0.95	5	\$4.75	https://www.adafruit.com/product/2203
28 pin socket (3 pack)	\$1.25	5	\$6.25	https://www.adafruit.com/product/2205
40 pin socket (3 pack)	\$1.50	5	\$7.50	https://www.adafruit.com/product/2207
Header Pins	\$0.50	50	\$25.00	https://www.adafruit.com/product/3002
DC Motor	\$1.76	50	\$88.00	https://www.adafruit.com/product/711

Tools

Item	Unit Price	Quantity	Total Price	Purchase Link
Ethernet Crimping Tool	\$16.59	3	\$49.77	http://amzn.to/2fvZc4k
Craftsman Precision Screwdriver Set	\$57.47	3	\$172.41	http://amzn.to/2xPviSV
Greenlee PA1123	\$27.54	3	\$82.62	http://amzn.to/2fvlhQm
Greenlee PA1176	\$12.79	3	\$38.37	http://amzn.to/2wncJlm

Soldering

			Total	
Item	Unit Price	Quantity	Price	Purchase Link
Weller WXP65 with Stand	\$273.00	6	\$1638.00	http://bit.ly/2xPB0Uy
Weller WXDP120 with Stand	\$418.00	2	\$836.00	$\rm http://bit.ly/2xOq0Hg$
Weller SP25NKUS	\$20.20	10	\$202.00	$\rm http://bit.ly/2xFIaZx$
Weller WSA350 Smoke Absorber	\$72.70	3	\$218.10	$\rm http://bit.ly/2fUgAjB$
Weller WSA250F Pads (3 pack)	\$7.60	2	\$15.20	$\rm http://bit.ly/2yJyIVj$
Spool 0.031" Solder	\$7.55	30	\$226.50	https://www.sparkfun.com/products/9325
Helping Third Hand	\$6.00	4	\$24.00	https://www.adafruit.com/product/291

Item	Unit Price	Quantity	Total Price	Purchase Link
PCB Vise	\$28.00	2	\$56.00	https://www.adafruit.com/product/151
Solder Sucker	\$4.50	10	\$45.00	https://www.adafruit.com/product/148
Solder Wick	\$2.70	12	\$32.40	https://www.adafruit.com/product/149
Solder Flux	\$15.95	6	\$95.70	https://www.adafruit.com/product/2667
Solder Stand	\$11.35	30	\$340.50	https://www.sparkfun.com/products/14232
Hookup Wire Set 22AWG	10	\$24.75	\$247.50	https://www.adafruit.com/product/3174

${\bf Other Mill}$

			Total	
Item	Unit Price	Quantity	Price	Purchase Link
Double-sided	\$32.00	8	\$256.00	http://bit.ly/2wnLgQm
Circuit Board				
Blanks (25 pack)				
Pulley Belt Set	\$3.00	2	\$6.00	http://bit.ly/2fw0I6w
0.0005"	\$216.00	2	\$432.00	http://bit.ly/2fuNwhW
Engraving Bit				
(10-pack)				
Scotch	\$6.10	10	\$61.00	http://amzn.to/2wo39P1
Double-sided				
Tape (2 pack)				
12 Volt Vacuum	\$59.00	1	\$59.00	https://thd.co/2wndvyM
12 Volt Battery	\$69.00	1	\$69.00	https://thd.co/2wZ1t2W
w/ Charger				,

Prototype Computing

Item	Unit Price	Quantity	Total Price	Purchase Link
Raspberry Pi 3	\$35.00	20	\$700.00	https://www.adafruit.com/product/3055
16 GB Class 10 MicroSD Card	\$18.95	30	\$379.00	https://www.sparkfun.com/products/13833ad
Raspberry Pi 3 Case	\$11.95	20	\$239.00	https://www.adafruit.com/product/2619
Raspberry Pi Power Supply	\$7.50	25	\$187.50	https://www.adafruit.com/product/1995
Raspberry Pi Display	\$44.95	20	\$899.00	https://www.adafruit.com/product/2441

Item	Unit Price	Quantity	Total Price	Purchase Link
Keyboard, Mouse, HDMI for Raspberry Pi	\$22.95	20	\$459.00	https://www.adafruit.com/product/2129
USB SD Card Reader	\$9.99	5	\$49.95	$\rm http://amzn.to/2xQfYpb$

Office Supplies

Item	Unit Price	Quantity	Total Price	Purchase Link
Dymo Label Printer	\$10.68	1	\$10.68	http://amzn.to/2k6Pqe4
Cat6 Ethernet Cable Spool	\$325.74	1	\$325.74	http://bit.ly/2xJUbyR
16 Port Ethernet Switch	\$48.99	1	\$48.99	http://amzn.to/2xP0jpZ
CO ₂ Fire Extinguisher	\$134.57	1	\$134.57	http://amzn.to/2xOlI2y
ANSI First Aid Kit	\$27.88	1	\$27.88	http://amzn.to/2xP5XIT
Board Markers	\$7.98	2	\$15.96	http://amzn.to/2hBlKVz
White Board Cleaning Cloth	\$4.34	2	\$8.68	http://amzn.to/2fuY4xA

Hardware

Item	Unit Price	Quantity	Total Price	Purchase Link
Spacer/Standoff Screw Sets	\$12.97	2	\$25.94	http://amzn.to/2yL21qw
Electrical Tape (10 pack)	\$12.70	1	\$12.70	http://amzn.to/2xFuuh5
Crimp Terminal Set	\$28.99	1	\$28.99	http://amzn.to/2ycC1ae

Electrical Equipment

Item	Unit Price	Quantity	Total Price	Purchase Link
DC Power Supply	\$79.99	3	\$239.97	http://amzn.to/2x04v79
Function Generator	\$318.89	1	\$318.89	http://amzn.to/2xBRS1v
Digtial Oscilloscope	\$379.00	3	\$1137.00	http://amzn.to/2fCwv9o
Digital Multimeter	\$23.69	10	\$236.90	$\rm http://amzn.to/2yMFXM5$

Robot Components

Item	Unit Price	Quantity	Total Price	Purchase Link
Vex Classroom Bundle	\$5299.99	1	\$5299.99	http://bit.ly/2fENpEh
Vex Advanced Sensor Kit	\$99.99	6	\$599.94	http://bit.ly/2fvmuHo