

# Product Design Challenge

## Vegetable Chopper-Bill of Materials

Part Name	Quantity	Price	Total
<b>Electronics:</b>			
VEX Microcontroller	1	\$149.99	\$149.99
Robot Battery Holder	1	4.99	4.99
AA Bateries 16-pk	1	14.38	14.38
L.E.D.	1	1.99	1.99
12" Extension Cables	6	1.95	11.70
<b>Structure:</b>			
12" Sqaure Bar Kit (cut to size)	1	4.49	4.49
Collar Pack	1	10.49	10.49
Delrin Bearing 10-pk	2	4.99	9.98
Bearing Block/Lock Bar	1	7.99	7.99
Thick Spacer Kit	1	2.99	2.99
Washer #8 10-pk	1	1.99	1.99
Chasis Rail 2x1x25 4-pk	1	14.99	14.99
Bar 1x25 Holes 8-pk	1	12.99	12.99
Angle Gusset 4-pk	1	7.95	7.95
Plus Gusset 4-pk	1	3.45	3.45
Keps Nuts 8-32 65-pk	1	1.99	1.99
3" Standoff 4-pk	1	6.95	6.95
2" Standoff	1	7.95	7.95
3/4" 8-32 Screw 100-pk	1	9.99	9.99
1/4" 8-32 Screw 100-pk	1	7.49	7.49
3/8" 8-32 Screw 100-pk	1	7.49	7.49
<b>Motion:</b>			
2.75" Diameter Wheel Pack	1	9.99	9.99
Vex Motor Kit	3	19.99	59.97
12 and 36 Tooth Gear 4-pk	1	5.99	5.99
60 Tooth Gear 4-pk	1	7.99	7.99
Vex Sprocket and Chain Kit	1	29.99	29.99
<b>Sensors:</b>			
VEX Limit Switch Kit	1	12.99	12.99
VEX Bumper Switch Kit	1	12.99	12.99
Accelerometer	1	29.95	29.95
PIR Sensor	1	9.99	9.99
<b>Other:</b>			
4" Tie Wraps 100-pk	1	4.95	4.95
Cutting Board	1	14.99	14.99
Knife	1	7.99	7.99
<b>Total:</b>			<b>\$510.00</b>

\*Products in red are not VEX brand