

Project:		Predator Bot			
Qty.	Description	Price ea. (\$)	Source	Link	Supplementary Info.
Electronic Parts					
1	Breadboard & Jumper Wires	\$ 10.00	Amazon	https://www.amazon.com/dp/B08Y59P6D1?ref=ppx_yo2ov_dt_b_fed_asin_title	
1	IR Distance sensor	\$ 15.00	Adafruit	https://www.adafruit.com/product/164	
2	DC Motor Driver Breakout Board	\$ 7.50	Adafruit	https://www.adafruit.com/product/3190	
1	Fire Beetle Board - ESP 32	\$ -	Cal Poly	N/A	
4	Resistors	\$ 0.10	DigiKey	https://www.digikey.com/en/products/filter/chip-resistor-surface-mount/52	30k (x2)
4	Capacitors	\$ 0.10	DigiKey	https://www.digikey.com/en/products/filter/ceramic-capacitors/60?s=N4lgjCBcoEwAwBYCcVQGMoDMCGAbAzgKYA0IA9IANohwB0YABAK0BiiAuqQA4AuUIAVQB2ASx4B5TAFIC2fAFcAToRABfdUA	0.1µF(x2), 47µF(x2)
4	Screw Terminals	\$ 1.04	Mouser Electronics	https://www.mouser.com/ProductDetail/Phoenix-Contact/1729128?qs=GFUSqQMLmmnCBVBY3dts9w%3D%3D&mgh=1&utm_id=1722215321&gad_source=1&gclid=CjwKCAjw68K4BhAuEiwAylp3kqLtBv9Mcqa8VyTQtvasQ4QTto2IUcIb7RUtWoE9WC_lcdxbkX058fBoCCMsQAvD_BwE	
1	IR Thermal Camera	\$ 74.95	Adafruit	https://www.adafruit.com/product/4407	Will borrow from 405 lab
Mechanical Parts					
2	DC Motor w/ Magnetic Encoder	\$ 25.00	Adafruit	https://www.adafruit.com/product/4638	
1	Ball Caster - 3/4" Metal Ball	\$ 4.95	Adafruit	https://www.adafruit.com/product/1200	
2	Black Multi-Hub Wheel for TT / Lego or N20 Motor - 65mm Diameter	\$ 1.95	Adafruit	https://www.adafruit.com/product/4205	
1	Roll of PLA	\$ 14.00	Amazon	https://www.amazon.com/OVERTURE-Filament-Consumables-Dimensional-Accuracy/dp/B07PGY2JP1/ref=sr_1_3?crid=1LD4TDTVR4SN7&dib=eyJ2ljojMSJ9.gUk879GuhJY71GAdwtXlZlyvBFb4fo2Yoc916JQIz0ZlCf2FdZ5GXoV3_sYZM8xvjyO6E0iL1j1LbqKN8iN1HrPkQTpTVSZ4iO45jLqTSuzb9bTfJRTTf3lcPngdBWlc13Hb4BwMuwrjKnU5w8W6KMWnKIRs40Jabogv8qciq8yk7lBgXX5vxzq5KosPRCKxm7iybvn1KySOu1qSWTuoUtDU3lBr0hc_H3qY3B_rCs.HULrXi77SE_K3c4Yhys2T6Qj7fBrctW50pcjrBcR5Nw&dib_tag=se&keywords=roll+of+PLA&qid=1729212035&srefix=roll+of+pla%2Caps%2C229&sr=8-3	