

## Billy

## UNIDAD ADAPTABLE A DISTINTOS TERRENOS TELEOPERADA

Gabriel Marzullo | Wvaldo Graell | Kelvin Kung

Asesor: Danilo Caceres

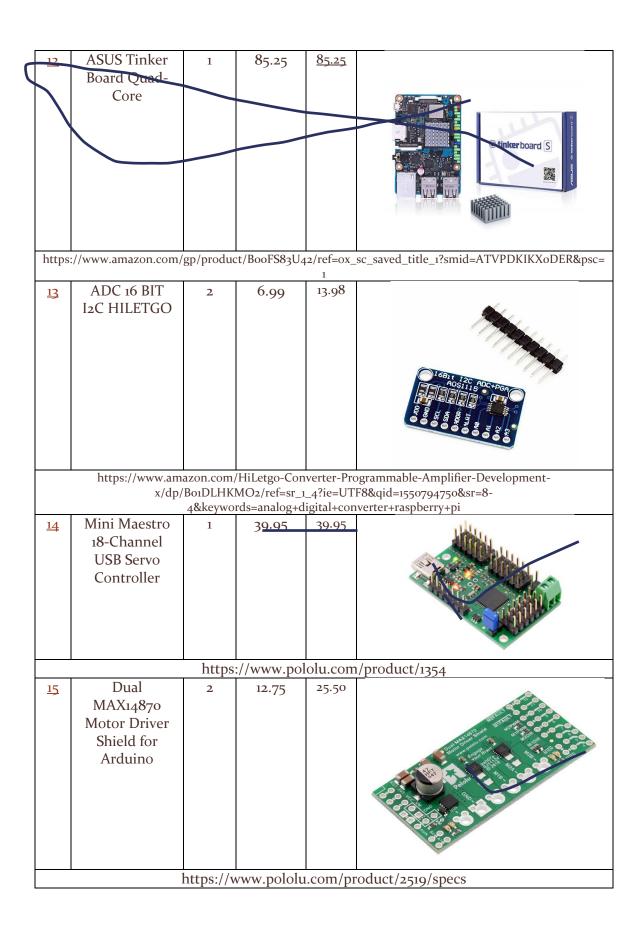
Laboratorio de Sistemas Inteligentes

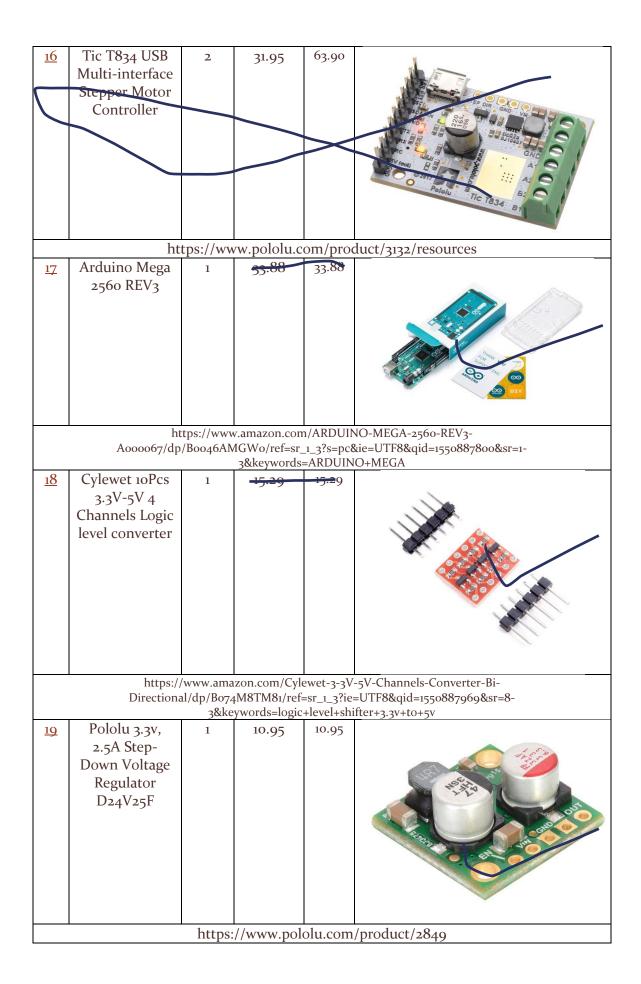
	Piezas requeridas para la construcción de la unidad Movil Billy								
#	Descripción	Cant.	Precio	Sub.	Descripción Grafica				
	1		Unitario	Total					
	LOCOMOCIÓN								
<u>01</u>	Oblique U- shaped Servo Bracket	4	5.00	20.00					
M:	https://www.amazon.com/BangBang-Oblique-U-shaped-Bracket- Manipulator/dp/Bo72J8PKL5/ref=sr_1_17?ie=UTF8&qid=1548o35324&sr=8-17&keywords=servo+bracket								
02	LewanSoul LD- 220MG 20kg High Torque Full Metal Gear Digital Servo Dual Ball Bearing	4	22.00	88.00	20 GEN AL SERVO				
Alu					.D-220MG-Digital-Bearing- =1548035324&sr=8-7&keywords=servo+bracket				
03	ANNIMOS 20KG Digital Servo High Torque Full Metal Gear	4	18.00	72	20 Kg  Mitch  S DSSERVO  DIGITAL SERVO				
					OS-Digital-Waterproof-DS3218MG- 8270718&sr=8-3&keywords=20kg+servo				
04	Seamuing 10Pcs Servo Horn Arm Aluminum 25T Futaba Servo Disc	1	9.00	9.00	25T Servo Horn  The other side  X 20				
					ıminum-Futaba-Mechanical- =1548270793&sr=8-5&keywords=25T+disc				

<u>05</u>	Magic&shell 2- Pack 6mm Flange Shaft Coupling High Hardness Metal Axis	2	12.00	24.00					
	Bearing								
	https	://www.an	nazon.com/M	lagic-Cour	oling-Hardness-Accessory-				
					?ie=UTF8&qid=1548271049&sr=8-2-				
	I	S	pons&keywor	ds=6mm+	-shaft&psc=1				
<u>o6</u>	Boeray 1pcs 7	2	7.00	14.00					
	Hole Cross				6				
	Joining Bracket				0				
	Plate for								
	Aluminum								
	Extrusion								
	Profile 2020								
	Series, 7 Hole								
	Joint Plate								
					cket-Aluminum-Extrusion-				
	Profile/				UTF8&qid=1548271256&sr=8-				
07	IZTOSS 4PCS		21.00	63.00	minum+joint+plate				
<u>07</u>	Die-Cast Zinc	3	21.00	03.00					
	Alloy Pivot								
	Joint for				The state of the s				
	Aluminum								
	Extrusion								
	Profile 2020				(A)				
	Series				200				
	Series								
	1		(177	1000 D:					
	-				Cast-Aluminum-Extrusion- JTF8&qid=1548271696&sr=8-				
	i ionie,				iluminum+pivot				
<u>08</u>	Boeray 50pcs	1	10.00	10.00					
	M <sub>5</sub> Slide in T								
	Nut Drop in								
	Nut for								
	Aluminum								
	Extrusion with								
	Profile 2020								
	Sereis Slot								
	6mm								
		:://www.ar	nazon.com/B	oeray-Alu	minum-Extrusion-Profile-				
Serei	Sereis/dp/Bo1GCDG2QO/ref=sr_1_8?ie=UTF8&qid=1548271800&sr=8-8&keywords=2020+profile+aluminum								
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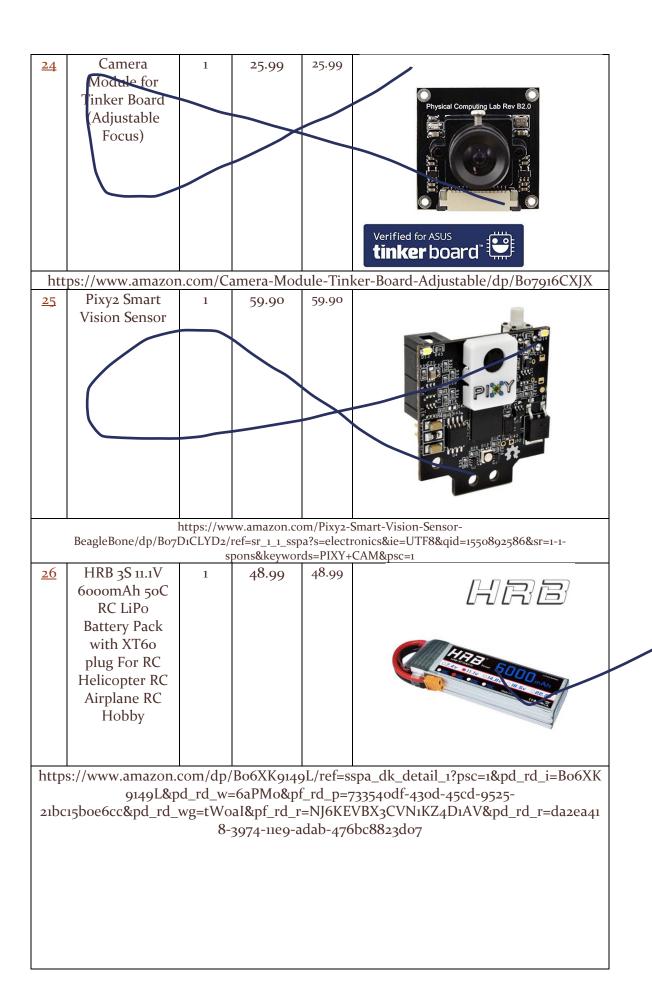
09	Greartisan DC 12V 100RPM	4	16.00	64.00	
	Gear Motor				
	High Torque				
	Electric Micro				
	Speed				• 6 • /
	Reduction				
	Geared Motor				
	Centric Output				
	Shaft 37mm				
	Diameter				
	Gearbox				
					Electric-Reduction-Centric-
	Diamete				UTF8&qid=1548271877&sr=8-
10	Hilitchi 510pcs				2Bmotor&th=1
<u>10</u>	M <sub>3</sub> M <sub>4</sub> M <sub>5</sub>	1	15.00	15.00	MAY 81 MAY 12 MAY 16 MAY 20 MAY 10 200° MAY 200 MAY 200 255'00 200'00 200'00 200'00 200'00 MAY 200 MAY
	Stainless Steel				300°CE 300°CE 300°CE 100°CE  HULLUCHI°
	Flat Head Hex				Maria A Casas.
	Socket Head				第一部分與公司 是
	Cap Bolts				
	Screws Nuts				
	Assortment Kit				
	- 304 Stainless				
	Steel				HAVE SOUTH SOUTH TO SEE THE THE SECOND SECOND
					510pcs-Stainless-Socket-
	Assortmei		3SVMX3T/ref &keywords=r		=UTF8&qid=1548272606&sr=8-
11	Linear Motion	3	15 00	45.00	5 riatriicau
	Aluminum		- 3		
	Profiles -				
	200mm Length				
	2060 T-Slot				
	Aluminum				
	Profiles				
	Extrusion				
	Frame for CNC				
					tion-Aluminum-Profiles-
Extr	usion/dp/Bo7MMXıQ	W9/ref=sr	_1_1?ie=UTF8	8&qid=1548	8272841&sr=8-1&keywords=2060+t-slot+200mm

Hardware/Sensores





20	Pololu 5v, 2.5A Step-Down Voltage Regulator D24V25F	2	10.95	21.90	
		https:	//www.pol	olu.com	/product/2850
21	AltIMU-10 v3 Gyro, Accelerometer, Compass, and Altimeter	1	13.95	13.95	
		https:	//www.pol	olu.com	/product/2469
22	Pololu Carrier with Sharp GP2YoA6oSZL F Analog Distance Sensor 10- 150cm,5v	4	12.95	51.80	d Listerstein.
		https:	://www.pol	olu.com	/product/2474
<u>23</u>	VL53L1X Time- of-Flight Distance	4	11.95	47.80	
	Sensor Carrier with Voltage			-	
	Regulator, 400cm Max				
	]	https://v	vww.pololu	ı.com/pr	oduct/3415/specs



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	<u>27</u>	Lipo Battery	1	17.99	17.99	
		Charger -				
		Energy tech				
		Balance				
		Charger				
		AC/DC 20W				Sumo Co
		2A 2-4Cells for				
		LiPo/Life/LiH				
		V Airsoft RC				Maria
		Car Battery				
		Charging				
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https://www.amazon.com/dp/Bo7H3PS7DF/ref=sspa\_dk\_detail\_2?psc=1&pd\_rd\_i=Bo7H3PS7DF&pd\_rd\_w=1 FsPH&pf\_rd\_p=73354odf-43od-45cd-9525-21bc15boe6cc&pd\_rd\_wg=Ja7TE&pf\_rd\_r=WD6TTJW96o75JZRG6HQ4&pd\_rd\_r=b155ae89-3975-11e9-8d5f-8b5d7eo9eabc