Component List for ENGMT280/ENGEE281

Off the shelf parts:

Ite	Item	Link	Max
m			Qty/team
No			
1	VReg	https://www.pololu.com/product/4082	3
2	Dual Motor	https://www.pololu.com/product/2135	1
	controller		
3	Range	https://www.pololu.com/product/4079	5
	Sensor		
4a	Gear motor	https://www.aliexpress.com/item/10050092668806	2
	St	<u>45.html</u>	
4b	Gear motor	https://www.aliexpress.com/item/10050042268889	2
	RA	<u>06.html</u>	
5	MicroServo	https://epartners.co.nz/products/servo-motor-sg90	2
6	ESP32 cam	https://www.aliexpress.com/item/10050070038219	1
		<u>69.html</u>	
7	ESP32	https://nz.mouser.com/ProductDetail/Espressif-	1
		Systems/ESP32-DevKitC-	
		32E?qs=GedFDFLaBXFpgD0kAZWDrQ%3D%3D	
8	Lego Stuff	3673 - connector peg	
		64179 - beam frame 5x7	2
		62821 - differentiale 3m z28	1
		6589 - conical wheel z12	3
		24316 - cross axle 3module w/endstop	4
		10928 - gear wheel t8 m1	4
		87083 - cross axle 4m w/endstop	5
		42136 - 1/2 bush	8
		42798 - bush for cross axle	4
		18575 - double conical wheel z20 1m	1
		58090 - tire street 30.4x14	4
		55982 - rim wide 18x14 w.cross 4.8	4
		39888 - 3m connector peg	4
9	Li ions	https://cell-supply.co.nz/product/lg-mh1-18650-	2
		3200mah-10a-battery/	
10	18650 batt	https://www.digikey.co.nz/en/products/detail/seeed	1
	holder	-technology-co-ltd/114090053/10451921	

In house manufacturing

Laser cuttable materials:

MDF 3mm, 4.75 mm, 6mm

Acrylic/PMMA 3mm, 4.5mm, 6mm

Acetal 4.5mm 6mm

3D printing materials:

PLA, TPU

Assorted fasteners:

M2 to M6 nuts and bolts

M2.5 standoffs