Paddle Scoot - Bill Of Materials / Feasibility

DIEM COM	PATIBILITY													
IE Z X SEAL	ED LEAD ACID BATTE	RIES AND WATER PR	OOF SWITCH NEED	DS TO BE HOUSED	IN A WATER PROOF	F CONTAINER AS	PADDLE SCOOT IS INSTALLED ON KAYA	4K5.						
ILL OF MAT	TERIALS (BOM)													
BOM Leve	1 0	1	2	3	Components	Part #	Part Name	Revision	Quantity	Unit of Measure	rocurement Typ	Reference Desig	Total Price (AUI	Part Price (AUD BOM Notes
0	*				Attachment	1	Grunt 25mm x 2m luggage strap	Α	1	packet	OTS	https://www.bunr	\$7.98	\$3.99 2 straps in p
0	*				Attachment	2	Pipe insulation 38mm	Α	1	metre	OTS	https://www.bunr	\$4.93	\$1.64 30cm require
0	*				Attachment	3	Zip ties	А	1	packet	OTS	https://www.bunr	\$2.76	\$0.30 2 required.
0	*				Attachment	4	Downpipe round clip	Α	1	each	OTS	https://www.bunr	\$2.05	\$2.05
0	*				Propulsion	5	2.2 Amp Hour 12 Volt Sealed Lead	Α	2	each	OTS	http://www.jaycar	\$47.90	\$47.90 To drive bilg
0	*				Propulsion	6	12 Volt Lead Acid Battery Charger	Α	1	each	OTS	http://www.jaycar	\$29.95	\$29.95
0	*				Propulson	7	3A fuse holder	Α	1	each	OTS	http://www.jaycar	\$1.75	\$1.75
0	*				Propulson	8	3A fuse	Α	1	each	OTS	http://www.jaycar	\$1.25	\$1.25
0	*				Propulsion	9	Marine 12V 350GPH Submersible V	A	2	each	OTS	http://www.ebay.	\$59.98	\$59.98
0	*				Propulsion	10	M? x 30mm Bolt	A	1	packet	OTS	http://www.bunni	\$5.00	\$0.30 For propeller
0	*				Propulsion	11	M? Nylon Lock Nuts	A	1	packet	OTS	http://www.ebay.	\$5.00	\$0.30 For tip of pro
1	*				Controls	12	On/Off Marine Switch	A	1	each	OTS	http://www.jaycar	\$5.00 \$12.95	\$12.95
1	*				Controls	13	Water resistant case	A	1	each	OTS	http://www.jaycai	\$9.98	\$9.98
1					Controls	13	Water resistant case	A	· · ·	eacii	013	ittp://www.buillii	\$161.53	\$142.39
													φ101.33	φ142.33
EASIBILITY														
#	Component	Part	Voltage (V)	Current (I)	ower (Watts ; I *)	Width (mm)	Length (mm)	Height (mm)	actors (volume	ne + Connectors	Weight (grams)	Comment		
"	1 Propulsion	Water pump	12	1.8		56	- , ,	110	ectors (volume	0		External. Not hou	ised within case	
	2 Propulsion	12V 2.2Ahr seale		2.2		178		66	1000			External Not not		
	3 Propulsion	Water resistant c				188		113		998468	250			
					4.8					598036	1600			
					FEASIBLE : surp	lus power				FEASIBLE : surp	FEASIBLE : less	than 3KG		
	Controls	Motor Controller	drive: 4.8 – 46V,	2A) - see Water	oump above							External. Not hou	sed within case.	
	Controls 4 Controls	Motor Controller	drive: 4.8 – 46V, 7.4	2A) - see Water 0.036		53	47	10	32000	56910	29		used within case.	
			7.4		0.27	53 85		10 15	32000 32000					
	4 Controls	Motor Controller	7.4 7.4	0.036	0.27 14.8	85 20	54 15	15			50			used within case.
	4 Controls 5 Controls	Motor Controller DragonBoard 410	7.4 7.4	0.036	0.27 14.8	85	54 15	15		100850	50 30	Estimated weight		used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls	Motor Controller DragonBoard 410 Ultrasonic Senso Breadboard x 2 Water Temperatu	7.4 7.4 5	0.036 2 0.015 0.0015	0.27 14.8 0.08	85 20 100 10	54 15 80 950	15 10 40 10	32000	100850 3000 320000 0	50 30 40	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls	Motor Controller DragonBoard 410 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m	7.4 7.4 5 5	0.036 2 0.015	0.27 14.8 0.08	85 20 100 10 103	54 15 80 950 34	15 10 40 10		100850 3000 320000 0 84530	50 30 40 130	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls	Motor Controller DragonBoard 410 Ultrasonic Senso Breadboard x 2 Water Temperatu	7.4 7.4 5 5	0.036 2 0.015 0.0015	0.27 14.8 0.08 0.01 16.28	85 20 100 10	54 15 80 950 34	15 10 40 10	32000	100850 3000 320000 0 84530 998468	50 30 40 130 250	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls	Motor Controller DragonBoard 410 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m	7.4 7.4 5 5	0.036 2 0.015 0.0015	0.27 14.8 0.08 0.01 16.28	85 20 100 10 103 188	54 15 80 950 34	15 10 40 10	32000	100850 3000 320000 0 84530 998468 433178	50 30 40 130 250 529	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls	Motor Controller DragonBoard 410 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m	7.4 7.4 5 5	0.036 2 0.015 0.0015	0.27 14.8 0.08 0.01 16.28	85 20 100 10 103 188	54 15 80 950 34	15 10 40 10	32000	100850 3000 320000 0 84530 998468	50 30 40 130 250 529	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls 10 Controls	Motor Controller DragonBoard 411 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m Water resistant c	7.4 7.4 5 5 7.4 ase	0.036 2 0.015 0.0015 2.2	0.27 14.8 0.08 0.01 16.28 1.13 FEASIBLE: surpl	85 20 100 10 103 188 Ius power	54 15 80 950 34 47	15 10 40 10 15 113	32000 32000	100850 3000 320000 0 84530 998468 433178 FEASIBLE: surp	50 30 40 130 250 529 FEASIBLE : less	Estimated weight Estimated weight External. Not hou	: . External. Not ho	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls 10 Controls	Motor Controller DragonBoard 411 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m Water resistant c	7.4 7.4 5 5 7.4 ase	0.036 2 0.015 0.0015 2.2	0.27 14.8 0.08 0.01 16.28 1.13 FEASIBLE: surpl	85 20 100 10 103 188 lus power	54 15 80 950 34 47	15 10 40 10 15 113	32000 32000 32000	100850 3000 320000 0 84530 998468 433178 FEASIBLE : surp	50 30 40 130 250 529 FEASIBLE : less	Estimated weight Estimated weight External. Not hou than 3KG	: : External. Not ho used within case.	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls 10 Controls	Motor Controller DragonBoard 411 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m Water resistant c Waveshare 5inch USB external rec	7.4 7.4 5 5 7.4 ase	0.036 2 0.015 0.0015 2.2	0.27 14.8 0.08 0.01 16.28 1.13 FEASIBLE: surpl	85 20 100 10 103 188 lus power	54 15 80 950 34 47	15 10 40 10 15 113	32000 32000	100850 3000 320000 0 84530 998468 433178 FEASIBLE : surp 259350 201000	50 30 40 130 250 529 FEASIBLE : less 31 300	Estimated weight Estimated weight External. Not hou	: : External. Not ho used within case.	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls 10 Controls	Motor Controller DragonBoard 411 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m Water resistant c	7.4 7.4 5 5 7.4 ase	0.036 2 0.015 0.0015 2.2	0.27 14.8 0.08 0.01 16.28 1.13 FEASIBLE: surpl	85 20 100 10 103 188 lus power	54 15 80 950 34 47	15 10 40 10 15 113	32000 32000 32000	100850 3000 320000 0 84530 998468 433178 FEASIBLE : surp	50 30 40 130 250 529 FEASIBLE : less 31 300 250	Estimated weight Estimated weight External. Not hou than 3KG	: : External. Not ho used within case.	used within case.
	4 Controls 5 Controls 6 Controls 7 Controls 8 Controls 9 Controls 10 Controls	Motor Controller DragonBoard 411 Ultrasonic Senso Breadboard x 2 Water Temperatu 7.4V Lipo 2200m Water resistant c Waveshare 5inch USB external rec	7.4 7.4 5 5 7.4 ase	0.036 2 0.015 0.0015 2.2	0.27 14.8 0.08 0.01 16.28 1.13 FEASIBLE : surpl	85 20 100 10 103 188 lus power 121 70	54 15 80 950 34 47	15 10 40 10 15 113	32000 32000 32000	100850 3000 320000 0 84530 998468 433178 FEASIBLE : surp 259350 201000 998468	50 30 40 130 250 529 FEASIBLE : less 31 300 250 581	Estimated weight Estimated weight External. Not hou than 3KG Estimated weight	: : External. Not ho used within case.	used within case.