Total BOM		Team Number 1	Members				
This BOM includes all purchased even items not used in the final project			Andrei Matei, Logan Newport,				
			Michael West, Raymond Mule,				
			Russell Gadd				
	Part Number	Description	Manufacturer Name	Quantity	URL to Product	Cost per Item	Total cost of Quantity
Cubaustana							
Subsystem	18				RAKDAP1-0-WB-N		
Wireless Communication Subsystem	4735-RAKDAP1-0-WB-N-ND	RAKDAP1-0-WB-N	RAKwireless Technology Limited	2	RAKDAP1-0-WB-N	\$15.04	\$30.08
	Di .				RAK811 LPWAN Breakout Module		
	EB0047418	RAK811 LPWAN Breakout Module	RAKwireless Technology Limited	2		\$32.39	\$64.78
Heartbeat/Respiratory Subsystem	513-NJR4262J	24 GHz Doppler Sensor Module	JRC	1	https://www.mouser.com/ProductDetail/Nisshinbo/	\$34.07	\$34.07
	B08S7HYGJM	High Precision AD HAT Board Waveshare ADC Module	Waveshare	1	https://www.amazon.com/Waveshare-High-Precision- Raspberry-ADS1263-Compatible/dp/B08S7HYGJM	\$55.99	\$55.99
		module.			Kaspuerry-AD31205-Companierup/ 6063/ httd://		
					https://www.digikey.com/en/products/detail/analog-		
					devices-inc/OP07CSZ-		
					REEL7/995520?utm_adgroup=Analog%20Devices&ut		
	□ □	Prescision Amplifier	Texas Instruments	2	m source=google&utm medium=cpc&utm campaig n=Dynamic%20Search EN Focus%20Suppliers&utm	\$2.31	\$4.62
	OP07CSZ-REEL7TR-ND	Treseason Ampiner	Texas institutions	-	term=&utm_content=Analog%20Devices&gclid=CjOKC	ÿ2.J2	J4.02
					Qjw6cKiBhD5ARIsAKXUdyYBkOYL-		
					1aWh53aOll8AXXF1uU5IS3YKelAGR3BP4-		
					yuHW5urhelyoaAt-TEALw_wcB		
					https://www.digikey.com/en/products/detail/stackpo		
					le-electronics-		
	м .				inc/CF14JT1K00/1830350?utm_adgroup=General&ut m_source=google&utm_medium=cpc&utm_campaig		
	CF14JT1K00TR-ND	1k Ohm 5% 1/4W axial resistor	Stackpole Electronics	2	n=PMax%20Shopping Product Zombie%20SKUs&ut	\$0.10	\$0.20
					m_term=&utm_content=General&gclid=Cj0KCQjw6cK		
					iBhD5ARIsAKXUdyYzUyry_5jJzcHVz5VKJjgaU44iZpaTrk		
					o4jueSd3Ms6wtAu-FjUNYaAqxcEALw_wcB		
	25	3k Ohm 5% 1/4W axial resistor	Stackpole Electronics	2	https://www.digikey.com/en/products/detail/stackpo	\$0.10	\$0.20
	CF14JT3K00TR-ND				le-electronics-inc/CF14JT3K00/1741418		•
	E CF14JT15K0TR-ND	15k Ohm 5% 1/4W axial resistor	Stackpole Electronics	2	https://www.digikey.com/en/products/detail/stackpo le-electronics-inc/CF14JT15K0/1741298	\$0.10	\$0.20
	⊞ 338-2641-ND	Mica 56 pF 5% 500V Radial	Cornell Dubilier Electronics (CDE)	2	https://www.digikey.com/en/products/detail/cornell- dubilier-electronics-cde/CD15ED560JO3F/1917754	\$2.61	\$5.22
					addings-electronics-cue/cut3cu36m03r/1317/54		
	<b>B</b>	Mica 8200 pF 5% 500V Radial	Cornell Dubilier Electronics (CDE)	2	https://www.digikey.com/en/products/detail/cornell-	\$19.94	\$39.88
	338-3057-ND	MICA 8200 PF 5% 300V RADIAL	cornell Dubiller Electronics (CDE)	2	dubilier-electronics-cde/CD30FD822JO3F/1918194	313.34	232.00
	2191-80.00000358-ND	IPS-937 24GHZ RADAR MODULE	InnoSenT GmbH	1	https://www.digikey.com/en/products/det	\$97.28	\$97.28
	2191-80.00000338-ND	IF 3-337 ZAGITZ NADAN IVIOUULE	mnoseni umon	1	ail/innosent-gmbh/80- 00000358/10416543	\$97.28	291.79
Communication Colombia	11020 1/2	Internal Name Development	Nvidia	1	Internal Name	\$279.00	\$279.00
Computing Subsystem	J1020 V2 RAS-4-4G	Jetson Nano Developer Kit Raspberry Pi 4 Model B	Raspberry Pi	1	<u>Jetson Nano</u> https://www.amazon.com/Raspberry-Model-2019-	\$279.00	\$279.00
	4 40			-		+	+
	BOB-19389	OPA344, SPH8878LR5H-1 MEMS Omnidirectional	SparkFun Electronics	1	https://www.digikey.com/en/products/d	\$6.95	\$6.95
Voice Detection Subsystem		Microphones Audio Evaluation Boar	Sparki an Electronics		etail/sparkfun-electronics/BOB19389/16342333		
	COM-18343	4 Ohms General Purpose Speaker 4 W Top Rectangular	SparkFun Electronics	1	https://www.sparkfun.com/products/18343	\$10.95	\$10.95
Power Subsystem	3017	DC-DC 5A Buck Converter	Valefod	1	DC-DC 5A Buck Converter	\$4.89	\$4.89
	DD39AJPA	Positive And Negative Dual Output Power Supply Module	eletechsup	1	Pos And Neg Dual Output Power Supply	\$6.89	\$6.89
	B091TRMFYT	NP-F Battery Adapter Plate	SmallRig	1	SmallRig NP-F Battery Adapter Plate	\$26.90	\$26.90
	B0BTHSDF4S	20 Pcs DC Power Cable 5A 12v DC	CENTROPOWER	1	CENTROPOWER 20 Pcs DC Power Cable	\$9.59	\$9.59
	B078NRLSKL	NP-F550 Battery 2-Pack and Wall Charger	Artman	1	Artman NP-F550 Battery 2-Pack and Wall Charger	\$25.79	\$25.79
						Total Expenses:	\$772.25
						Total Quantity:	28