Name of Item	Description	Used in which subsystem(s)	Part Number	Manufacturer	Quantity	Price	Total
Raspberry Pi 4B 4GB	Main MCU for the navigation subsystem of the Autonomous Crawl Space Inspection Robot. This MCU has 4 GB of RAM and uses a micro SD card for storage. Our team will be using a Raspberry Pi 4B from an old capstone team	Navigation Subsystem	RPI4-MODBP-4GB	Raspberry Pi	1	$0.00	$0.00
RPLIDAR Sensor	Spinning 360 degree lidar sensor development kit that includes the following: RPLIDAR A1M8 Sensor, USB Adapter, and Coms Cable	Navigation Subsystem	RPLIDAR A1M8-R6	Slamtec	1	$99.99	$99.99
Raspberry Pi CPU Fan	A fan with heatsinks that will help to regulate the temperature of the raspberry pi while under hardware and processing load	Navigation Subsystem	ZP-0110	GeeekPi	1	$10.59	$10.59
MOSFET	MOSFET	Environmental Sensing Subsystem	2N3906	Diotec	5	$0.05	$0.25
Capacitor	Capacitor	Environmental Sensing Subsystem	C1206F104K5RACAUTO	Kemet	1	$0.49	$0.49
Resistor	Resistor	Environmental Sensing Subsystem	RH73X2B10GKTN	TE	1	$4.57	$4.57
Resistor	Resistor	Environmental Sensing Subsystem	CRCW1206470MJPEAHR	Vishay	1	$0.69	$0.69
Resistor	Resistor	Environmental Sensing Subsystem	CRCW120647M0JPEAHR	Vishay	1	$0.69	$0.69
Resistor	Resistor	Environmental Sensing Subsystem	CR1206-FW-4704ELF	Bourns	1	$0.10	$0.10
Resistor	Resistor	Environmental Sensing Subsystem	CR1206-FX-8203ELF	Bourns	1	$0.10	$0.10
Motor Driver	5-12 V Dual H-Bridge Motor driver	Environmental Sensing Subsystem	L298N	STMicroelectronics	1	$0.00	$0.00
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
Total			Total Components		15	Total Cost	117.47