Part Number	Name	Short Description	Vendor	Vendor Listing	Cost per Unit	Quantity	Part Total Cost
1	Arduino Uno	The Arduino Uno microcontroller will be used for the real time processing of the incoming singal.	Micro-Robotics Centurion	https://www.robotics.org.za/UNO-ORG?search=arduino%20uno	R342.70	1	R342.70
2	RaspberryPi Model 3B+	RaspberryPi single board computer will be used for user interactions, such as displaying the GUI as well as storage of all effects programmed into the Multi-FX unit	Micro-Robotics Centurion	https://www.robotics.org.za/RP3B-PLUS?search=Raspberry%20pi	R802.70	1	R802.70
3	High Precision ADC 32 bit	The ADC will be used for converting the analog signal received from the instrument into a digital signal the can be processed by the Arduino microcontroller	Micro-Robotics Centurion	https://www.robotics.org.za/W18983?search=adc%20raspberry%20pi	R431.25	1	R431.25
4	Audio DAC 32 bit	DAC will convert the processed signal back into an analog signal so the signal can be sent to other external audio devices such as a guitar amplifier or recorder	Micro-Robotics Centurion	https://www.robotics.org.za/PCM5102?search=dac%20raspberry%20pi	R227.70	1	R227.70
5	23LCV1024-I/P-1Mbit SRAM chip	The SRAM will be used to store active audio effects that need to applied to the incoming audio singal (NOTE: Can only be purchased in a pack of 5)	RS Components	https://za.rs-online.com/web/p/sram/8032272	R44.22	1	R44.22
							R0.00
						Total:	R1,848.57