

COVID Hearing Aid
Team 38:
Kartik Kansal (kkansal2)
Saul Rodriguez (srodri28)

Requirements Summary:

Module Name	High Level Requirement	Points
Microphone Module	<ul style="list-style-type: none">• This module should be capable of capturing the typical frequency range of human speech• This module should also be reduce audio received not directly in front of the mic• Lastly this module should be able to pick up audio as low as 54 dB	20
Preamplifier Module	<ul style="list-style-type: none">• This module should be capable of powering the microphone• This module should also be able to tune the amplification of the audio signal via an external dial	15
Power Module	<ul style="list-style-type: none">• This module should be capable of powering the entire system with a rechargeable battery• This module should also be able to indicate the remaining battery life via LEDs	10
Output Module	<ul style="list-style-type: none">• This module should be capable of converting the amplified signal to analog audio, which can be played through any device using a 3.5mm jack	5
	Total	50