

1.08 - Team Echo

Wireless Speaker System

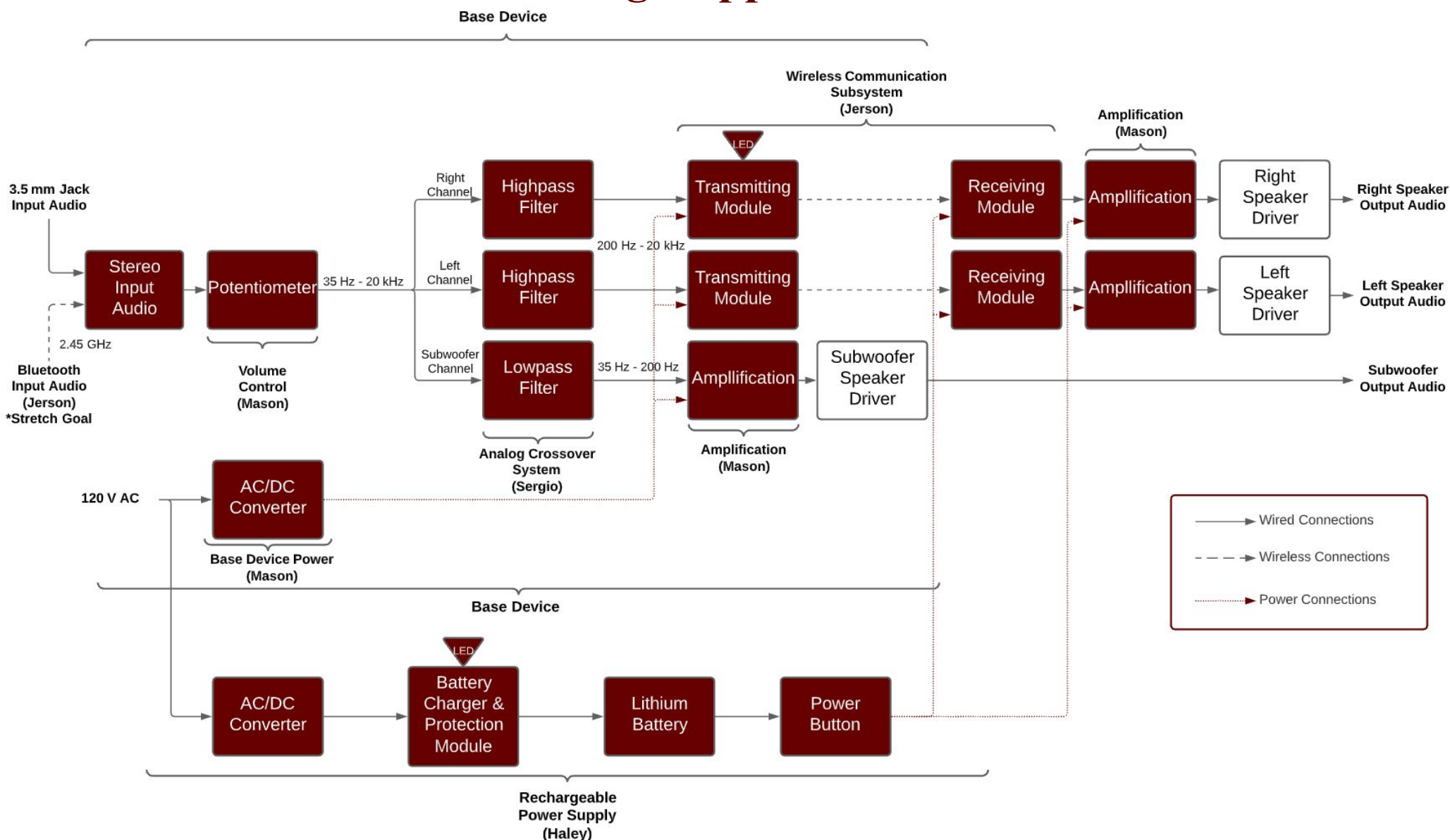


Mason Killingsworth Sergio Morales Jerson Quispe-Canales Haley Hirschfield

Key Requirements:

- ❖ Speaker output of 80 dB at 1 meter
- ❖ Analog Crossover - Linkwitz Riley filter
 - Speaker Channels: 200 Hz - 20 kHz
 - Subwoofer Channel: 35 Hz - 200 Hz
- ❖ Wireless transmission in a 10'x10' room
- ❖ Minimum battery life of 10 hours
- ❖ Maximum battery recharge time of 4 hours

Design Approach:



Plans for Senior Design 2:

Next semester we will complete construction of individual subsystems and perform unit system testing. We then plan to complete full system integration and testing. Our wireless speaker system will be complete and fully tested by Senior Design Day in December.

Milestone	Start Date	End Date
Individual Subsystem Construction & Testing	4/16/2021	9/10/2021
Full System Integration & Testing	9/10/2021	11/12/2021
Final Design Review	11/12/2021	12/4/2021

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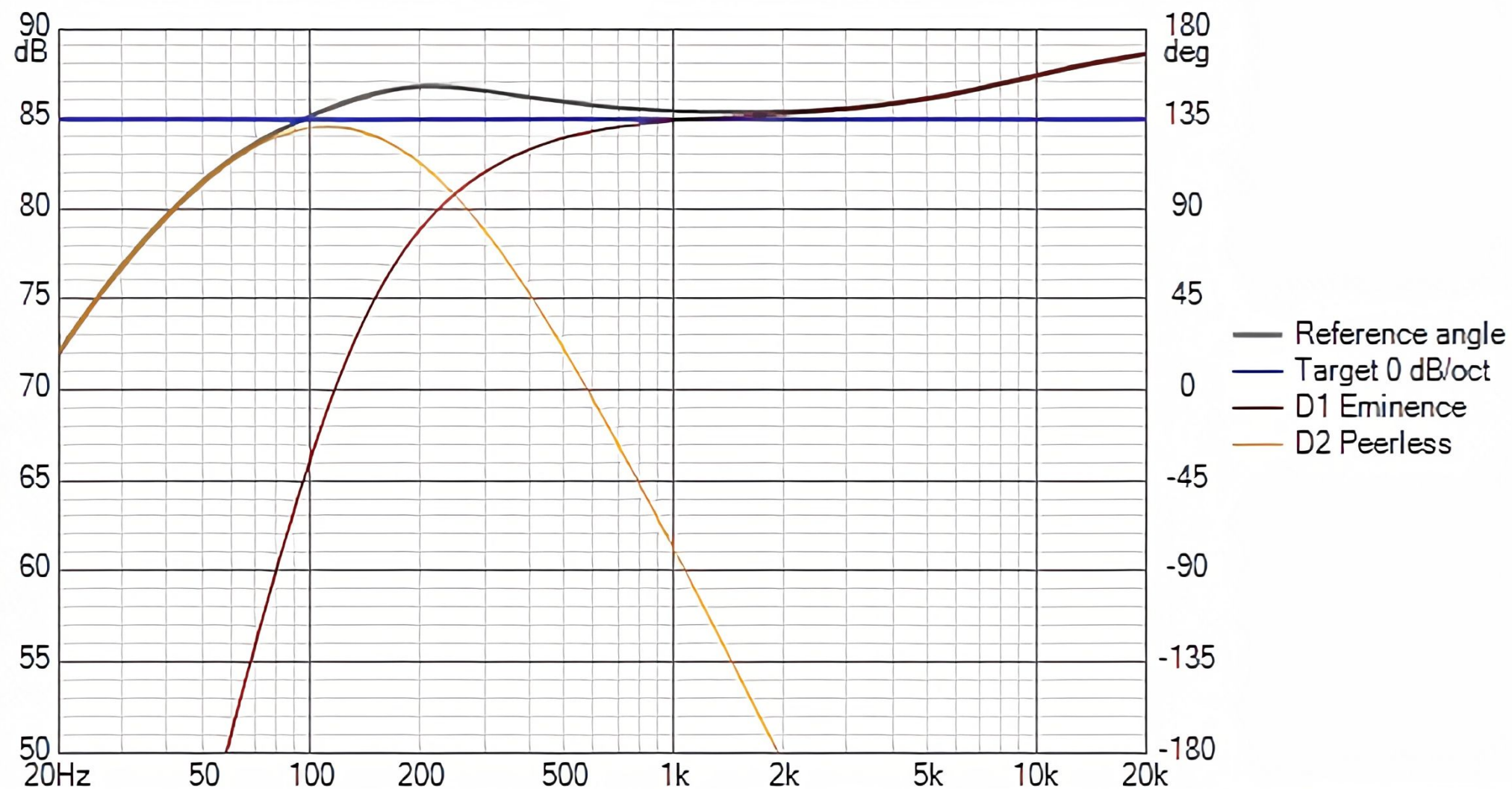
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SPL Graph:



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