

Bass Guitar Amplifier

Group 26

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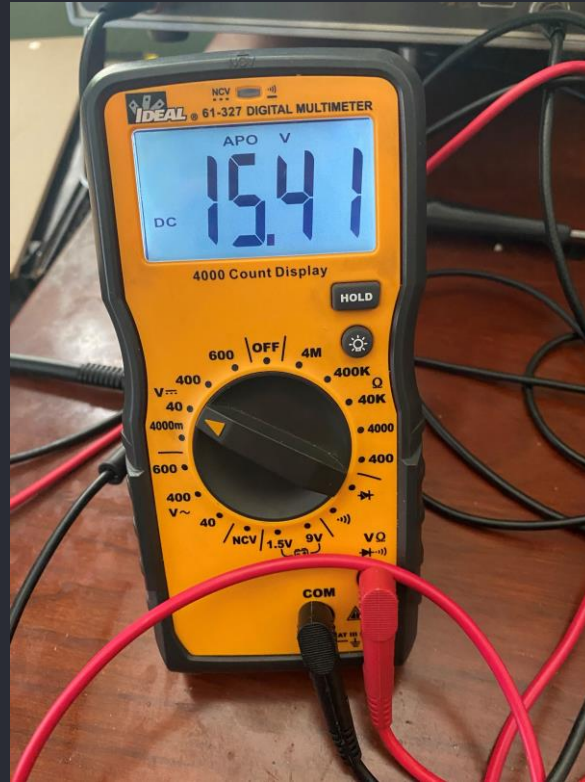
James Howell

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Specifications

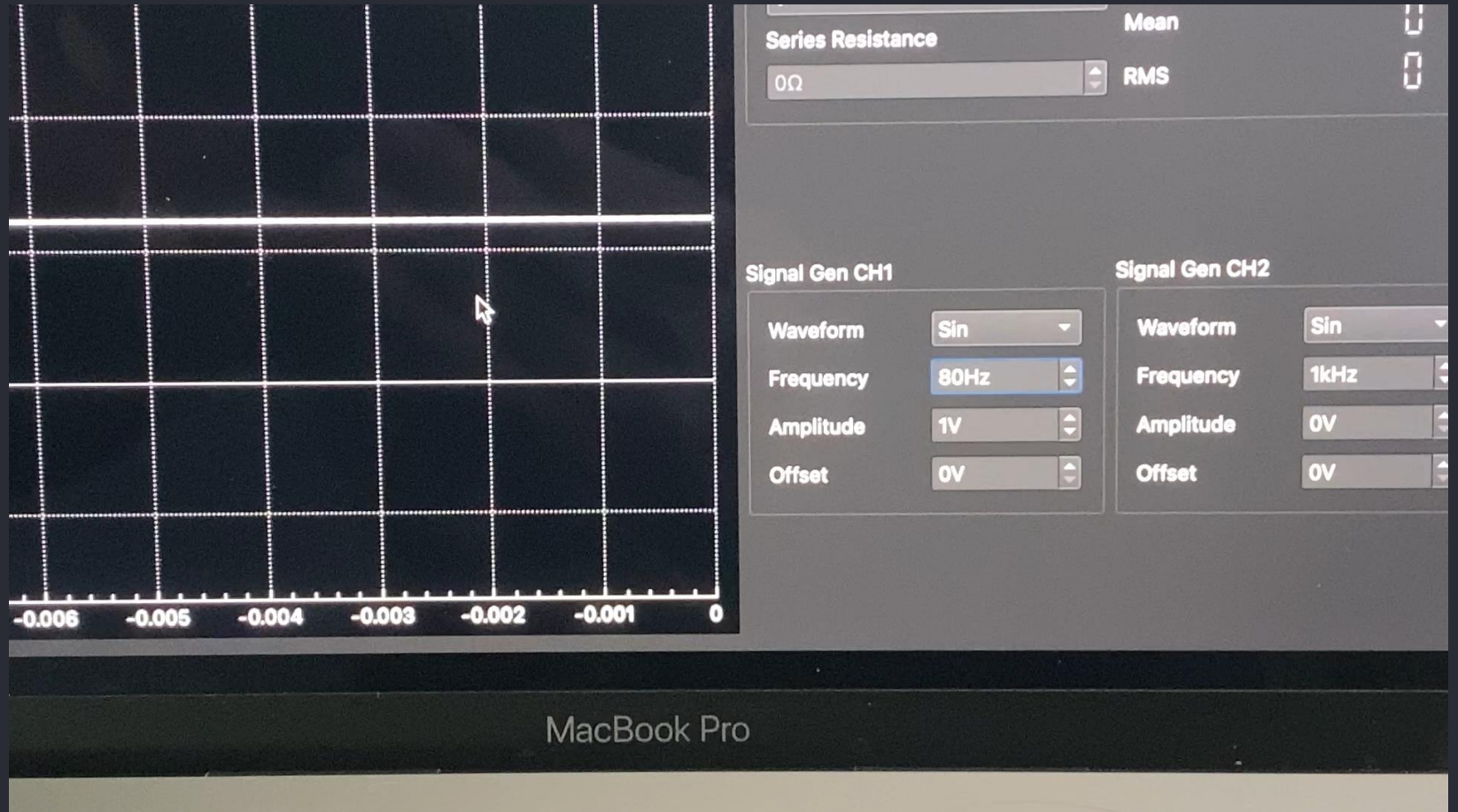
	Engineering Specification	Unit
1*	The Power Supply should output the proper voltages as specified	+36V,-36, +15, -15, GND
2	The Output Power should be within specification	100w @ 8Ω
3	The Total Harmonic Distortion should be at or below specification	0.5%
4	The Signal to Noise Ratio should be at least specification	80db
5*	The Equalizer should target the designed frequencies	80Hz, 250, 500, 1.5k, 3k, 5k
6*	The Equalizer should apply a boost/cut to the target frequencies	±12dB

Power Supply

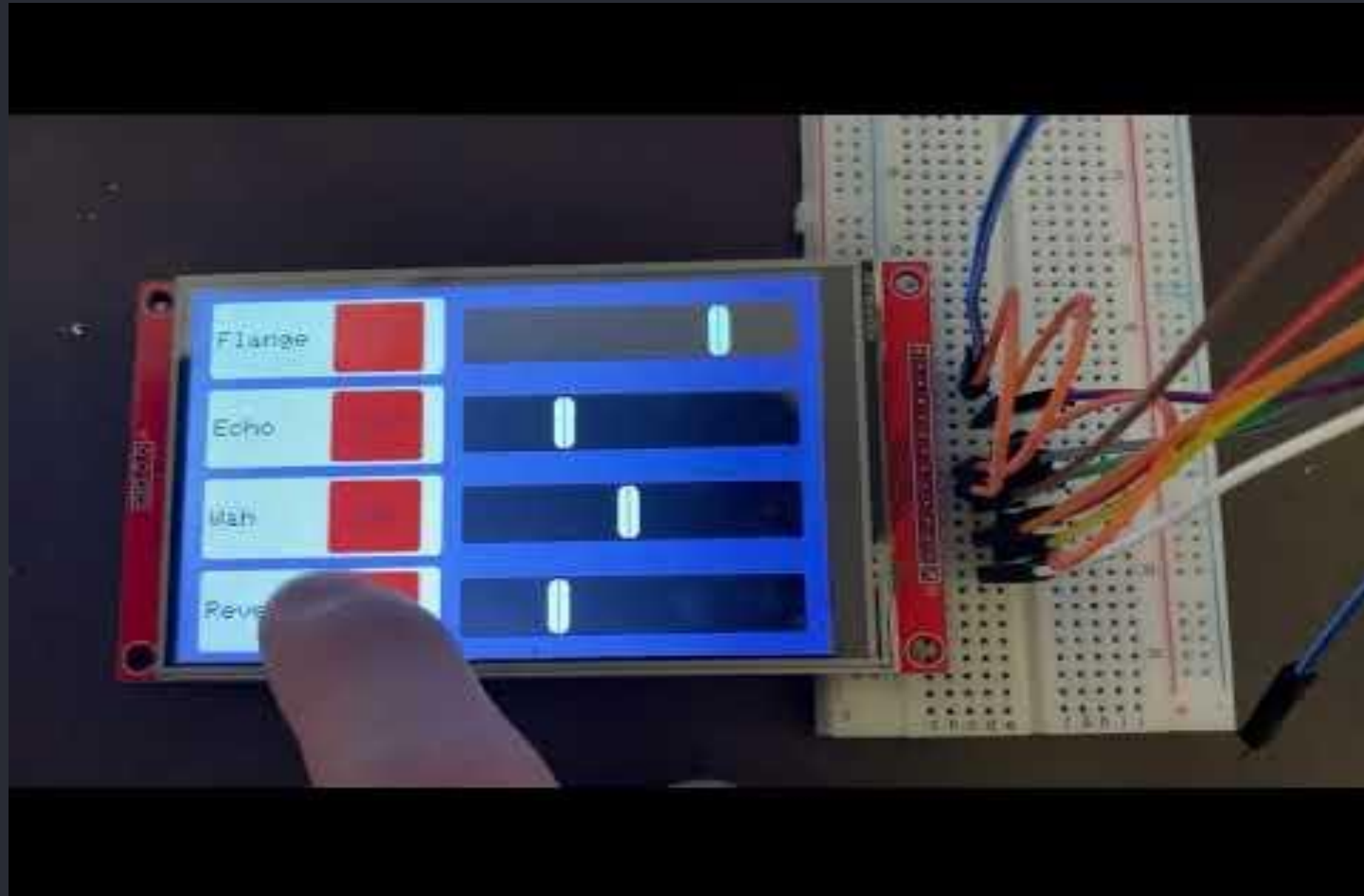


Equalizer

- Notes:
 - The 80Hz, 250, 500, 1.5k, and 5k all work as expected.
 - The 3kHz band had a potentiometer wiring issue not seen at the time of recording. This issue is now fixed and is fully functional.
 - A more exact testing methodology will be preformed for the final demo.



User Interface Demo



Overall Functionality

Audio Comparison

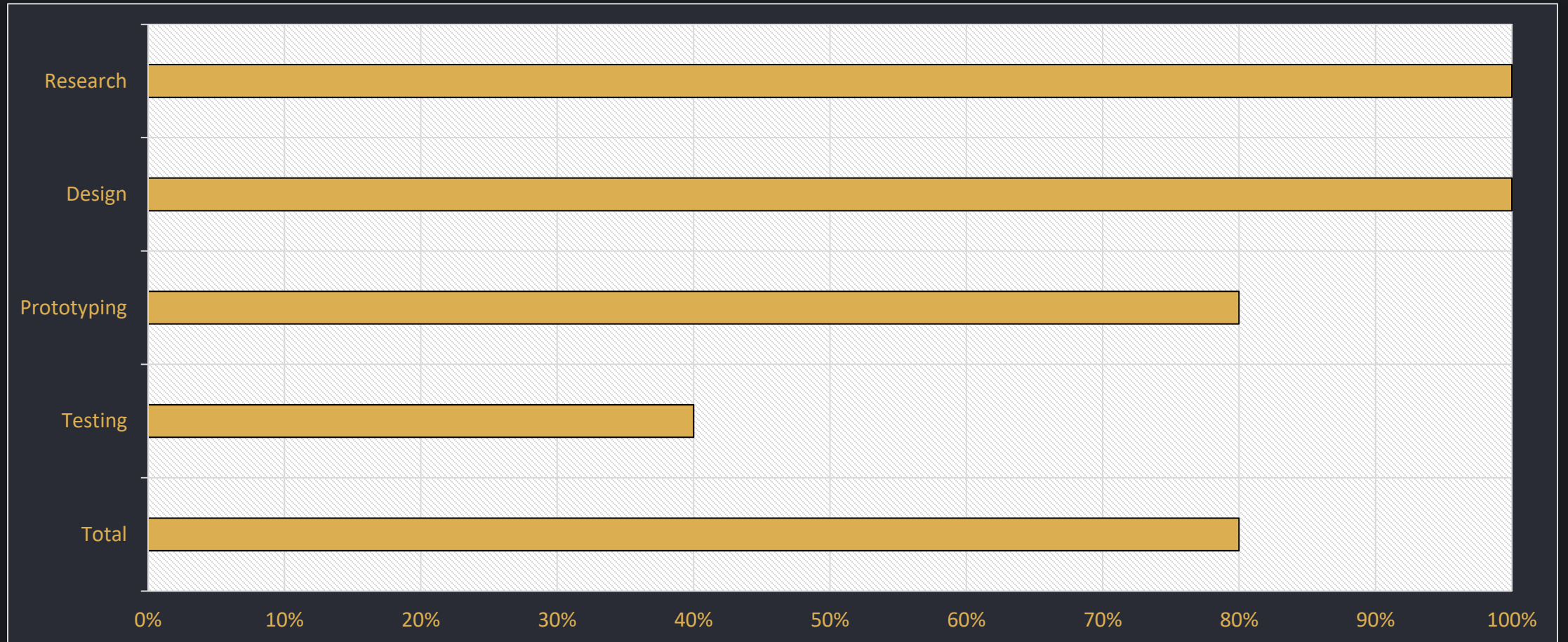


Audio Comparison
Control Group

Bass: Schecter Omen Extreme-5
Amp: Boss Katana 110
Recording Microphone: HyperX QuadCast



Overall Progress



What's Next?

- Combining all pieces together
- Running comprehensive testing to ensure product meets specifications outlined in SD1 Report
- More permanent heatsink fixtures for the Power Amp and Regulators
- Using correct length wiring
- Mounting pcb's inside case

Changes

- As of now, there are no major changes to the design specified in the SD1 Report
- We do not anticipate any changes moving forward
- The project is on pace to be fully completed before the SD2 deadline

Closing Thoughts