Bowers & Wilkins

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Dear _____,

Thank you for accepting the Bowers & Wilkins DSP Challenge.

This exercise is designed to test some of the day-to-day technical skills required by an Audio DSP engineer, as well as giving an opportunity to demonstrate your creative thinking and communication abilities.

The DSP Challenge:

- **Part 1: System Setup.**
- **Part 2: Implement a Biquad Filter.**
- **Part 3: Expand the project & create a short presentation (15mins).**

Project Location:

https://github.com/bwgroupltd/BW_DSP_Challenge

Please download the DSP Challenge project files (using GIT) from the above address and see the included **Readme.md** file for full instructions.

The exercise is designed to take a few hours to complete – but is deliberately open-ended

While a technical test for interview candidates, we hope the task is also fun to complete. Please remember that the purpose is to demonstrate your abilities – some gaps in knowledge are acceptable – if you encounter problems (particularly with getting the hardware functioning) please move on as there are plenty of other elements where you can seriously impress us.

We have (hopefully) provided everything you'll need within this package – although a monitor with an HDMI connection and internet access are also required.

A Windows PC is required to run the SigmaStudio DSP software (Note: If you do not have access to a Windows machine, the task is still possible – please see the relevant notes in the instructions)

If you get stuck, please email the address below and we shall try to get you moving again.

Good luck, and we look forward to seeing how you got on.
Best regards,

Keith Ovenden
Lead DSP Integration Engineer
keith.ovenden@soundunited.com

B&W DSP Challenge Packing List

All equipment hereby listed remains property of B&W Group Ltd, and must be returned upon request – the company will liaise with the applicant to arrange courier collection.

Item	Sent	Returned
Raspberry Pi		
HifiBerry DSP Expander		
µSD Card (Formatted with Raspberry Pi OS)		
USB Keyboard		
USB Mouse		
PSU Adapter (UK)		
Mini HDMI → HDMI Cable		
Ethernet Cable		
Phono → MiniJack adapter		

Notes:

Signed _____

Date _____/_____/_____

Return Notes:

Signed _____

Date _____/_____/_____