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**PROJECT ABSTRACT PROPOSAL (Updated with an additional source from a journal).**

**INTERACTIVE WALL.**

My proposal is to explore on the idea of interactive walls. Moving further into the 21st century, and with the ever evolving nature of smart entertainment devices, the integration of a cloud-based house wall would be an interesting concept.

The concept of interactive walls is not new, the technology has been widely used to design art walls [[Source]](https://www.bareconductive.com/blogs/blog/our-favorite-interactive-wall-projects), video displays, exhibitions and so on. However, with the demand for cloud-based entertainment increasing, and the popularity of smart TVs, I think developing an integrated entertainment and task-based platform, fully built into a new house, or installed on completed houses, would be a game-changer. This would obviously require a stable operating system to manage all the processes involved in carrying out the various platform tasks.

My thought process is a section of a room’s wall would be designed into a fully interactive, cloud-based platform with integrated, large display (customizable screen proportions) and touch functionality. This platform would have everything from streaming services, to reading emails or other work-related tasks, launching a central home-wide control panel (a thermostat, controlling lights in a home...etc.), fun and immersive applications and built-in home security interface.

**Other Sources:**

* <https://prodisplay.com/touch-screens/interactive-screens/interactive-video-wall/#:~:text=WHAT%20IS%20AN%20INTERACTIVE%20VIDEO,touch%20frame%20to%20grant%20interactivity>.
* <https://medium.com/mouth-watering-media/the-top-10-digital-interactive-display-walls-40b96066477c>
* Heidrich, Felix, et al. "Interacting with smart walls: a multi-dimensional analysis of input technologies for augmented environments." *Proceedings of the 2nd Augmented Human International Conference*. 2011. (<https://hci.rwth-aachen.de/publications/heidrich2011a.pdf>)