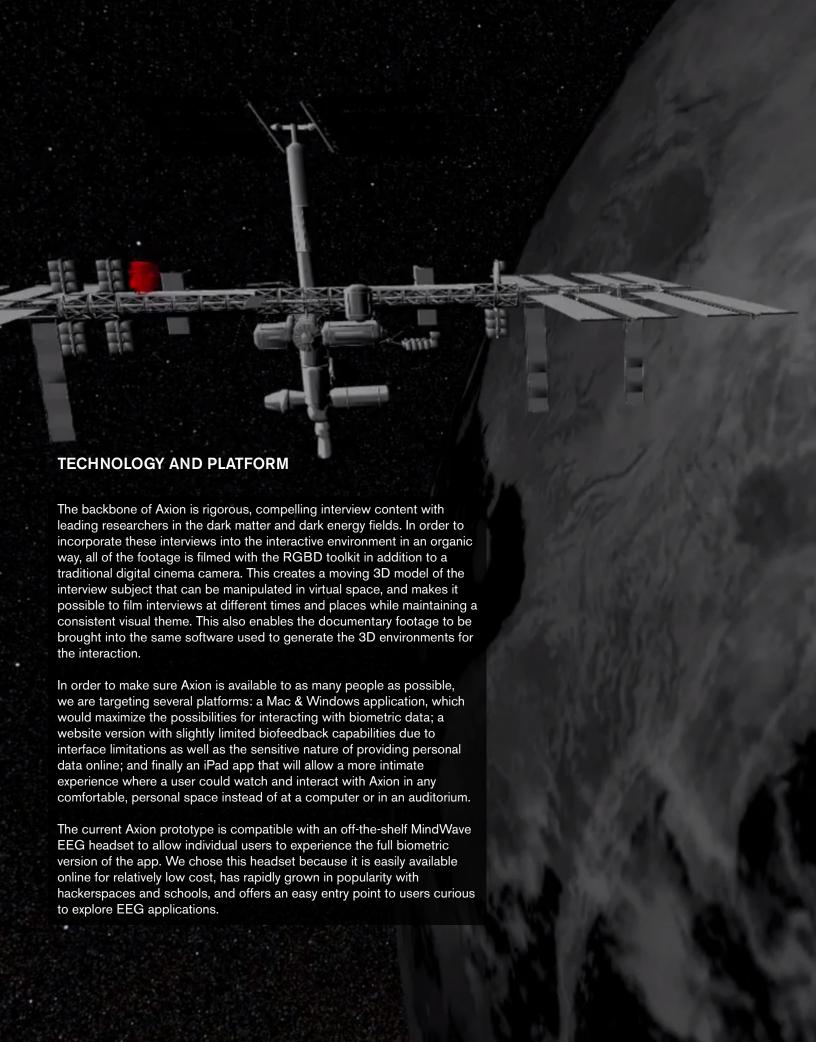


INTERACTION

Axion is designed to respond to both conscious interactivity and unconscious interactivity. The conscious level is the game-like exploration of a virtual environment. The player has control of their progression through the game-space such that their movements determine the documentary content they encounter while fostering a desire for exploration and building an emotional connection to the interview subjects.

Unconscious interaction arises from Axion's algorithmic interpretation of a user's biometric data as an input detached from their direct control, such as pulse rate, breath rate, blink rate, or electroencephalogram (EEG) signals. Because players may be unable or unwilling to provide biometric data, it is not strictly necessary in order to use the program, nor will the experience feel limited for a user not providing biometric data. Instead, this data is used to add a level of personalization to each player's journey to make the Axion experience manifestly unique.

Collecting biometric data serves two functions. First, from the user's perspective, the environment they explore will be a reflection of themselves as the biometric data algorithmically generates and shapes the environment. For example, a topography generated in real time by the waveform of the player's EEG signal, or a forest where each "tree" is a visualization of data from previous journeys including those of other players. The second feedback function, which takes place in the app framework separately from the user's experience, uses biometric data to gauge the player's level of focus or interest. Because some people may be more engaged by technical scientific information while others may be more responsive to emotive stimuli, the app monitors how each player responds to each part of the documentary and adjusts the subsequent content stream. In our prototype, we use EEG data from a consumer-available headset to make this determination, but eye-tracking or pulse rate can also be implemented in future versions.



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