



## **SurroundMe Executive Summary**

The listening qualities of surround sound stereo systems have come a very long way starting from the phonoautograph to the Bose echolocation system. The Bose system uses signal processing to modify the output of each speaker to better optimize the sound quality in a room. This clearly states that the system is concerned about the room rather than a user. This system still has inefficiencies when applied for one user regarding music balance and delivery of high and middle frequencies. The proposed system cures this inefficiency. The SurroundMe sound system utilizes the detection technology of an Xbox Kinect to control motorized speakers and point them directly at the user. This method of music delivery allows for a direct path from the speaker to the user allowing the mid-range and high range frequencies to ring clearly in the user's ear drum.