

Sight of Touch

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Problem Statement

The lack of integrated devices that utilize multiple senses to provide an enhanced musical experience for a universal audience.

Impact on the Community

For any user no matter background, physical or mental attributes is able to enjoy the device instilling some curiosity and enjoyment. By pairing musical sounds with visual and haptic sensations providing an enhanced exposure to music.

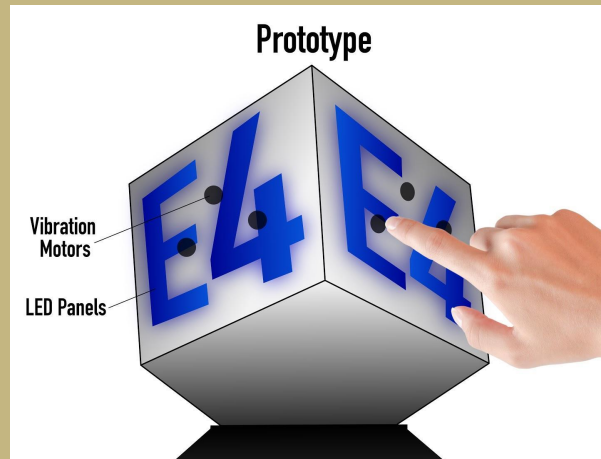


Figure 1: Spring 2020 Deployable Prototype Schematic



Figure 2: Team 6 with finished multi-sensory device

Design Features

1. Audio
2. Haptic Feedback
3. Visual Aid
4. Synchronization
5. Multi-User

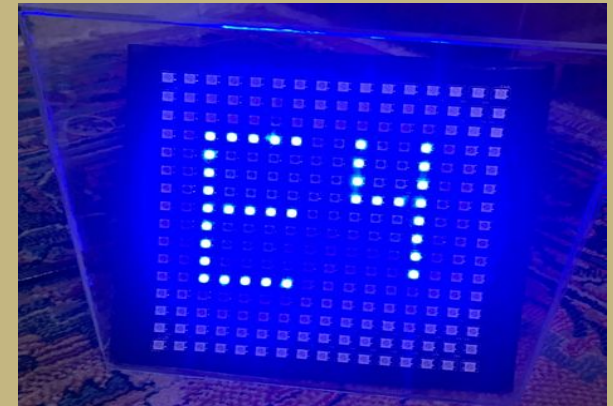


Figure 3: Visual Aid Representation of note E4

Summary of Work

Spring 2020 semester, the team completed device testing and hardware improvements. Testing involved validating the performance of vibration motors and upgrading the visual aid feature to 16x16 LED matrix panels, to create a unique experience for users.