From left to right: The original haptic awareness device, Front view of the magic wand, Side view of the magic wand, Second haptic hat with a lidar light.

Haptic Awareness Device: We changed the program on the hat so the motors do nothing when there is nothing in front of the sensors. We added a fan in front of the hat and a ventilation hole to cool the computer so it doesn't overheat. We also shortened the wires so the hat looked better.

Hat with lidar light: Our teacher Mr. Edoga created a second hat the acts as a haptic awareness device. This uses a lidar light and an arduino. This is connected to a lithium battery. It is lighter because it has only one sensor and three motors. It is a bit easier to use smaller, adjustable and light.

Magic Wand: Our teacher Mr. Edoga created a device that uses a lidar light. It also has a battery, one arduino and six vibrating motors. It is handheld, lightweight, small and you can point it at anything rather than wearing it.

By:
AJ Diamond
Ethan Lang
Ali Short
Tristan Boyle
Mathew Shipley