



Ryerson University SMART Lab - BabyVibe 2nd Generation Prototype

George Brown College (GBC)'s Centre for Construction and Engineering Technologies (CCET) have partnered with Ryerson University's SMART Lab (RU) to produce a second generation prototype of the BabyVibe garment designed in an earlier phase of the project. The SMART Lab is an interdisciplinary research team concerned with questions at the intersection of mind, music and technology. Their research is rooted in the rapidly emerging field of music cognition but it also branches out to connect with complementary work in the fields of hearing science, human factors, and assistive/rehabilitative technology.

The BabyVibe (BV) is a "jumper style" garment is equipped with two columns of "exciters" to translate noise into vibrations, allowing the testing of auditory and tactile reception. Because the jumper is stretchable and form fitting, the exciters are pressed close to the back allowing for consistent sensory transduction of vibration before and after the infant develops.

A GBC student team will produce a 2nd generation prototype of the BabyVibe. The revised prototype will address challenges identified from the evaluation of the 1st generation prototype, such as reducing the weight and improving the power supply, comfort and connectivity of the garment.

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