

HEX • DEX: Interactive Actuated Platform

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The hex•dex is a pneumatically actuated platform developed to engage the full body in an interactive immersive environment. The goal of this research was to create a virtual multi-projector power wall that provides haptic feedback through a series of robotic interactive responsive platforms.

The hex•dex is a system that focuses on minimalistic development tools and calibration techniques to create immersive experiences from off-the-shelf elements. The team, consisting of faculty and students from computer science, digital media and architecture, designed and fabricated this interactive environment utilizing readily available digital projection systems and Wii interactive gyroscopic hardware.

