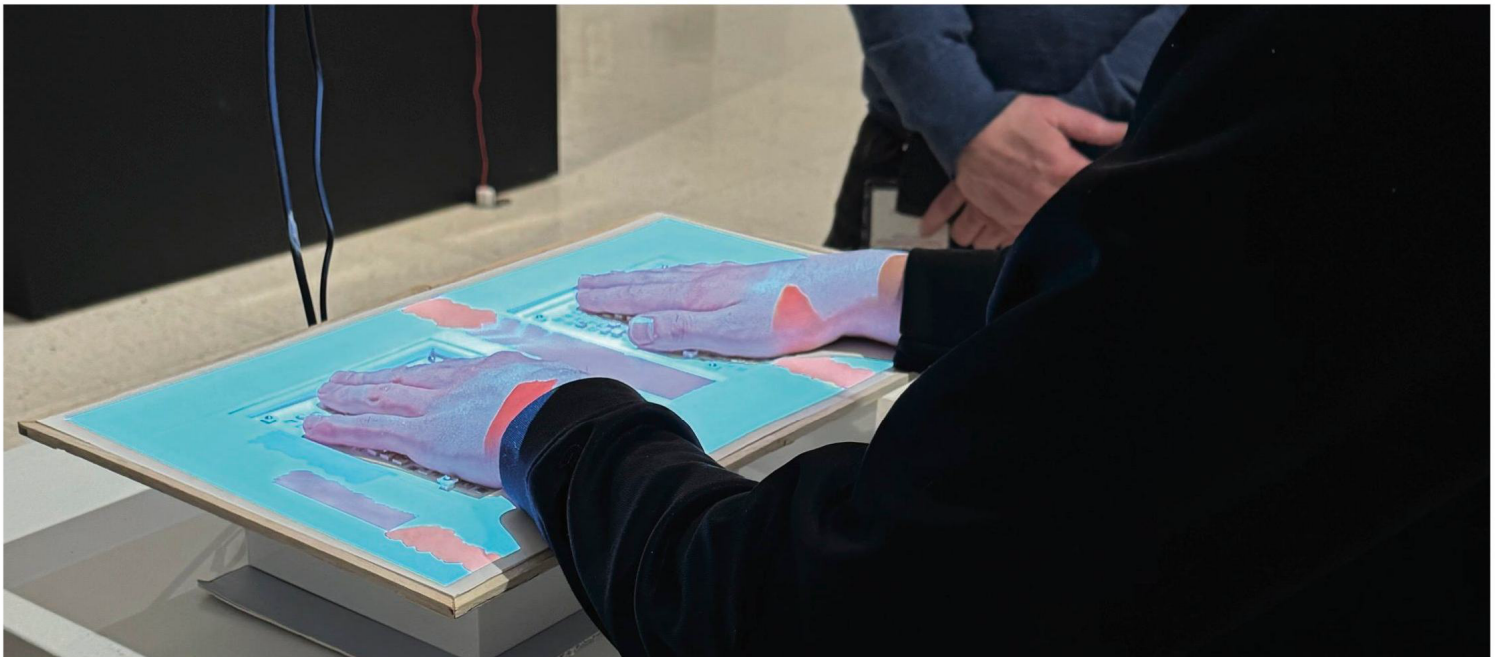
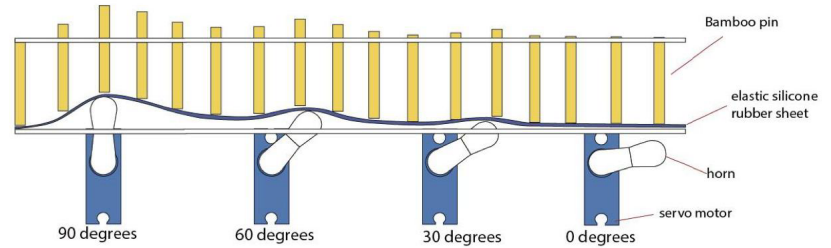
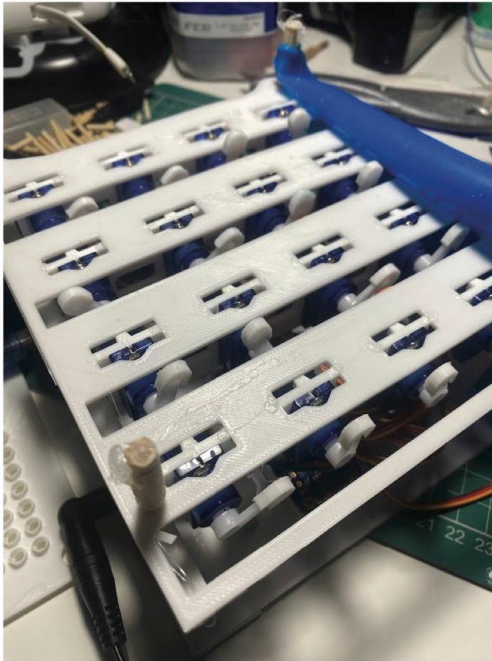




Kinetic Apple No.2 Incorporating Touch in Animation



Kinetic Apple No. 2 stems from a practice-based inquiry into how sound can be experienced through touch in the context of expanded animation. The process began with everyday sound recordings, which were translated into 2D animations using principles of rhythm, abstraction, and motion. These animations were then converted into motion data that drives a custom-built haptic interface: 416 balsa wood pins activated by 32 servo motors controlled via Arduino. This device enables a tactile engagement with sound through kinetic form. The methodology integrates animation, haptic technology, and sensory ethnography to investigate non-visual modes of perception and audience engagement.

The work was first exhibited in Animation as Art at the Museum of Texas Tech in 2024, where it functioned both as a sculptural object and a participatory interface for embodied spectatorship.



Kinetic Apple No.2

Bharoto Yekti, S.Ds., M.A.

Kinetic Apple No.2 is an expanded animation project that investigates the integration of touch into the animated experience. Developed through practice-based research, the work features a custom-built haptic device powered by Arduino and 32 servo motors, which drive 416 handcrafted balsa wood pins. Sound recordings from everyday activities were translated into 2D animation and then converted into motor data to generate tactile motion. By transforming auditory and visual elements into a touchable surface, this work explores new forms of embodied animation, offering a multisensory approach that challenges the dominance of vision in animated media.

Sustainable Development Goal(s) Relevancy

Goal 9: Industry, Innovation and Infrastructure

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Short Biography

Bharoto Yekti is a lecturer at Universitas Multimedia Nusantara and a PhD candidate in Film and Television Studies at the University of Glasgow. His research focuses on experimental animation, haptic technologies in animation, haptic visuality, stop-motion techniques, and the integration of 3D printing in animation practice.

Title

Kinetic Apple No.2

Production Process Years

2023

Publication Year

2024

Publication Details**Location :** Animation as Art collective exhibition, Museum of Texas Tech University**Date/duration :** March-June 2024**Publisher/Organizer :** Texas Tech University**Publication Media**

Expanded Animation combining kinetic, and 2D animation utilizing Projector, 53x30cm screen board, looping 2D animation, haptic device consist of 416 pins and Arduino 1 minutes Looping

Recognition

<https://bharoto.com/28-kinetic-apple-2>

Grants

University of Glasgow, School of Culture and Creative Arts, Annual School Research Support Fund 2024

Additional

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