STUDENT WORK

Golem. 2012. Response to prompt, 'Make a box with a universal connector', for Mechatronic Art.

The artist's hand and forearm are involuntarily manipulated by an electrical stimulation device, sculpting a bed of clay.

Transcutaneous Electrical Nerve Stimulation (TENS) device, electrodes, Arduino, laser cut box, custom control circuitry, clay.

Untitled. 2013. Final project, Sensing and Control Systems for Digital Art.

Project records viewer's responses to a series of increasingly personal questions. Reconstitutes those responses in a remote video stream from twitter posts in synthetic computer voice.

Automatic speech recognition software, twitter API, speech synthesis software, webcam, custom Python code.
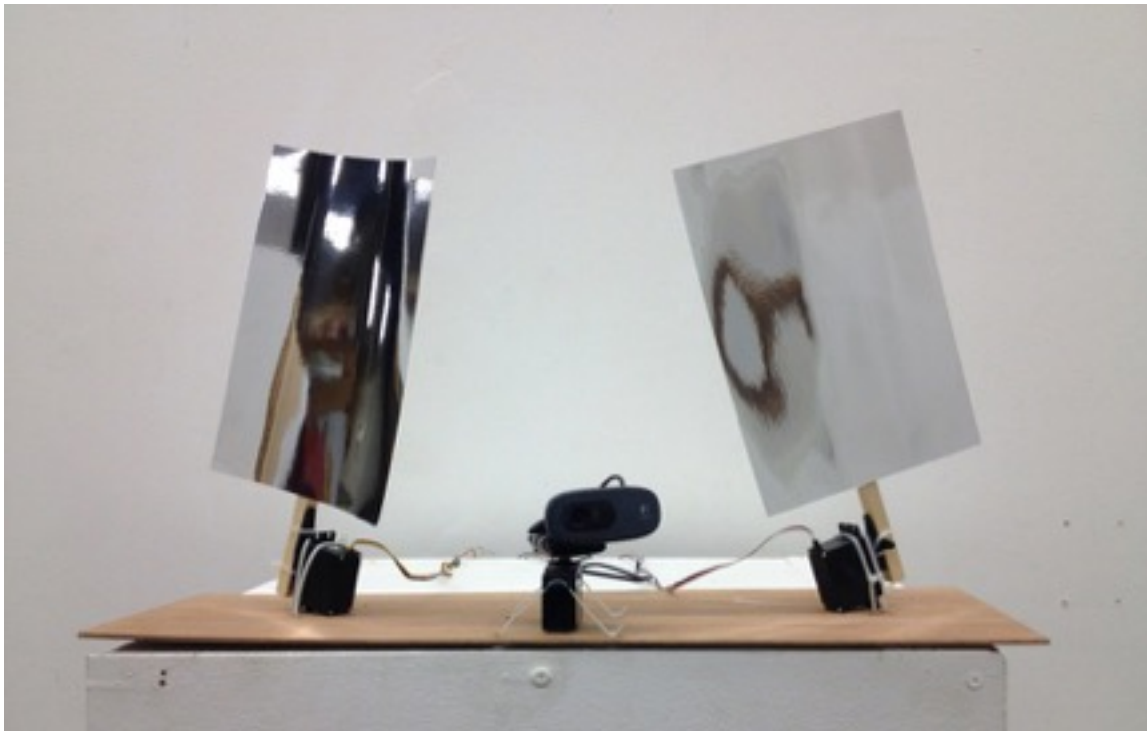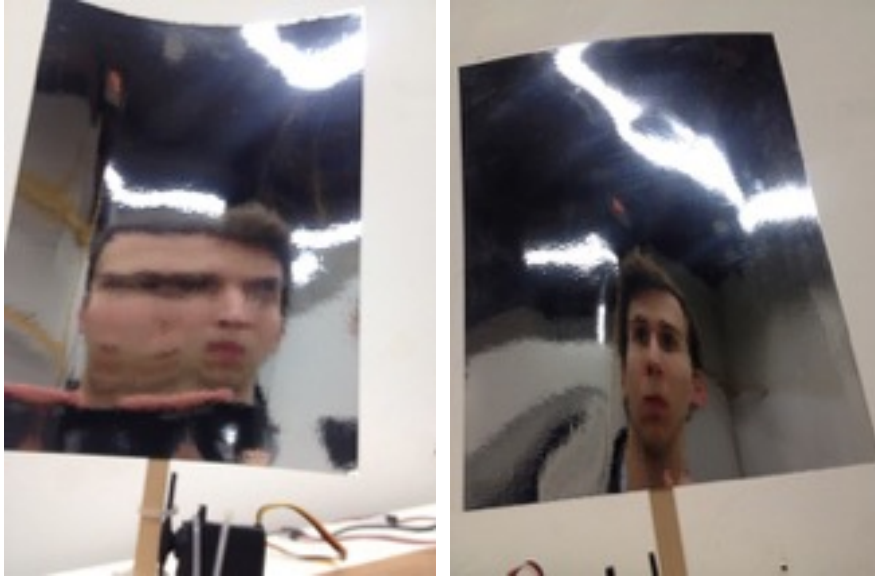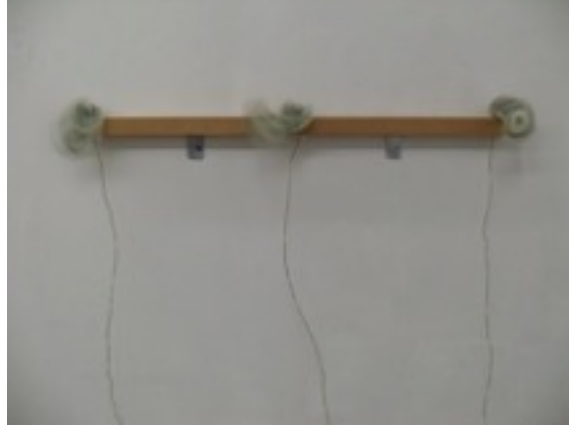
Scopophobia. 2013. Response to prompt 'An artwork where invisible parts share equal importance with visible parts', Mechatronic Art.

An intelligent camera that avoids the viewers gaze. When trapped, it confronts the viewer with a distorted image of their face in a convex or concave mirror.

Servo motors, computer vision software, Arduino, Processing, webcam.

Petty Crimes. 2013. Response to prompt 'An artwork where invisible parts share equal importance with visible parts', Mechatronic Art.

Conceived as an artwork that could not be sold, each element in this installation involves some illicit flow/manipulation of capital. The three components (spinning bills, spinning coin sounds, and random access record) are composed in an live sound composition run from the Arduino.

Dollar bills, 25¢ pieces, bootleg Bob Dylan record, servo motors, Arduino.

Untitled. 2013. Final project, Sensing and Control Systems for Digital Art.

Amplifying inherent themes of violence and sexuality in rock and roll, the artist constructed a system that alternately slams a guitar into a concrete wall and drags it across record covers featuring semi-naked women. Also performed, with breathing and mouth sounds from a live microphone.

Electric guitar, amplifier, microphone, servo motor, found record covers, concrete wall.

Untitled. 2013. Response to prompt, 'An artwork where invisible parts share equal importance with visible parts', Mechatronic Art.

Project establishes an invisible line in the gallery space. Tactile headgear vibrates when the viewer crosses this invisible line.

Knit cap, webcam, computer vision software, tactile feedback headgear, arduino.

Untitled. 2011. Response to prompt, 'Autonomous Artwork', Mechatronic Art.

Project takes classic landscape photos and transforms them with an iterative process of western migration. Pixels migrate westwards where their neighbors have lower green values.

Processing, computer monitor, found landscape paintings.

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The Blue Hour. 2012. Final project for Sensing and Control Systems for Digital Art

Project gathered multiple types of light and chroma sensing equipment from a photographers toolkit. Time-lapse video of descent from twilight to night is projected onto this equipment while the artist reads passages of poems evocative of this period.

Various light sensing equipment, time lapse footage, poetry.
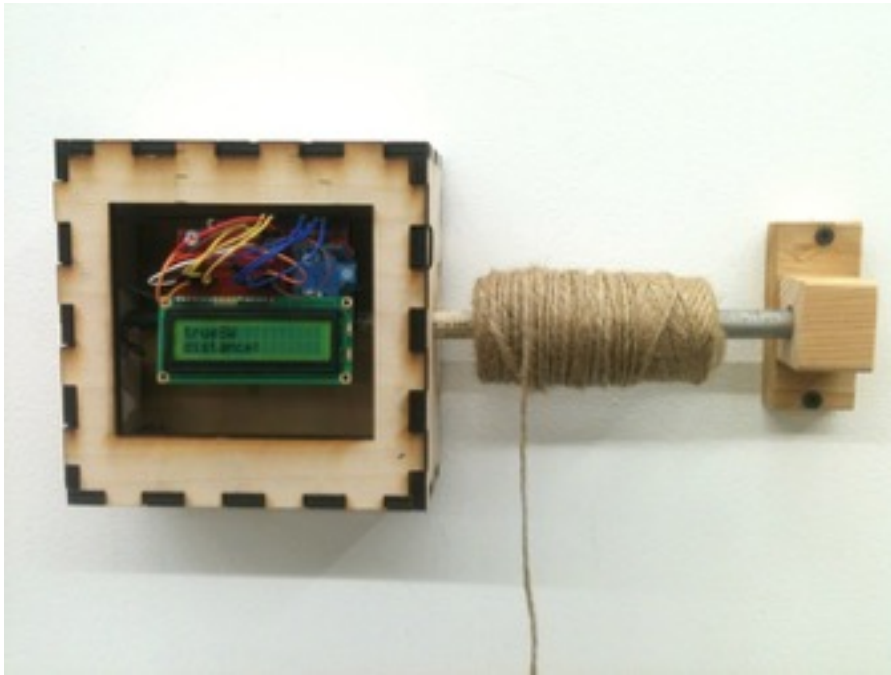
Untitled. 2013. Final Project, Sensing and Control Systems for Digital Art.

A hand-crafted robotic snail is pointed towards the artist's home in Singapore. As it travels towards home, it is anchored by a spool of twine and an encoder that record the distance it has travelled.

Rotary encoder, Arduino, LCD display, laser cut mechanism, DC motor.

Untitled. 2013. Final Project, Sensing and Control Systems for Digital Art.

A position-sensitive camera is embedded in a blank mirrored box. As viewers handle the device, it captures photos and assembles a panoramic image of its current environment.

Accelerometer, Arduino, hacked digital camera, laser cut acrylic, image stitching software.
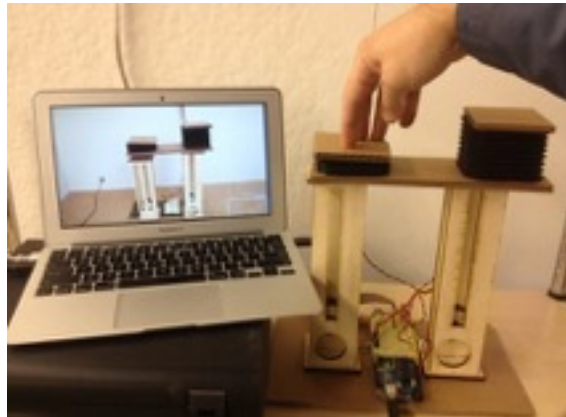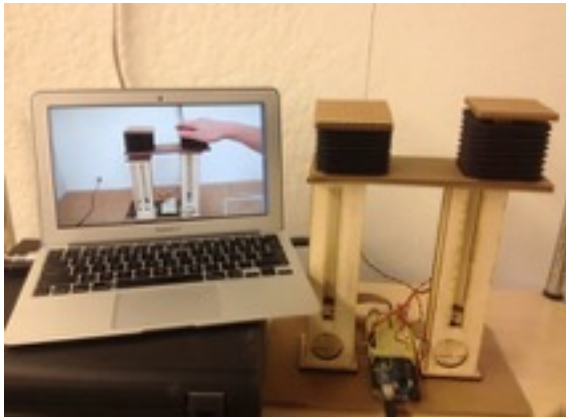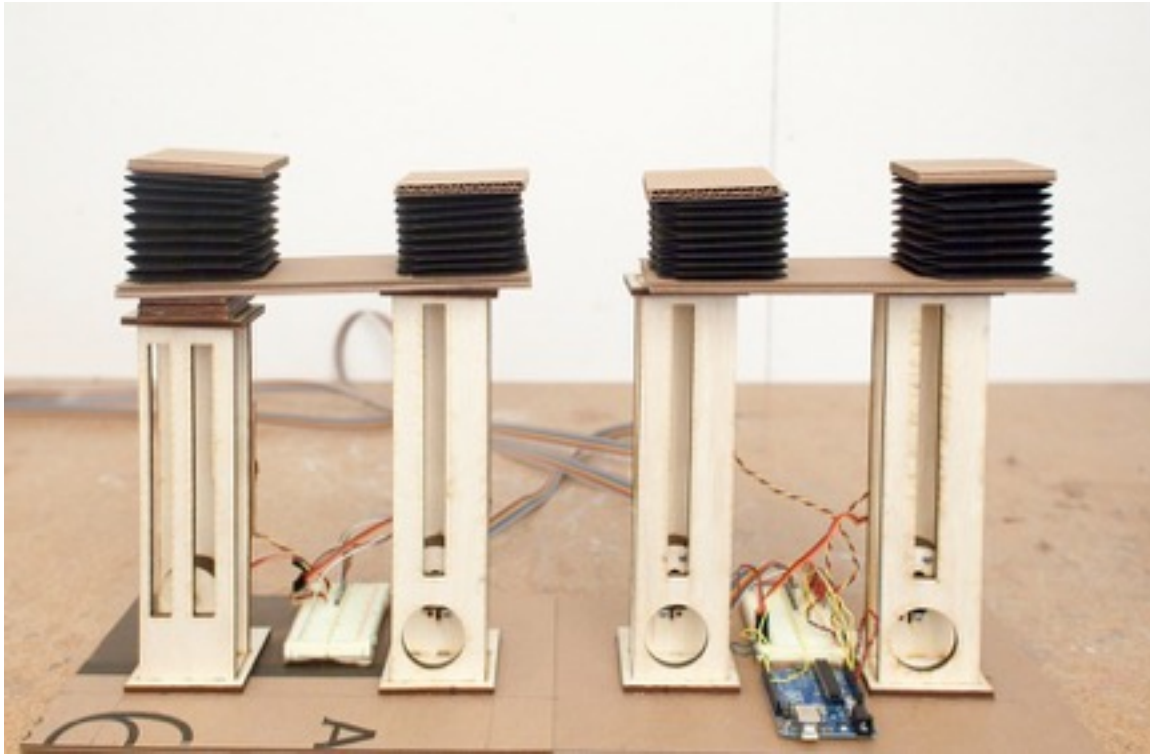
Communicator. 2012. Response to 'Self Replicating Artwork' prompt, Mechatronic Art.

Two bi-directional touch sensing/expressing devices are connected remotely, facilitating telematics contact.

Arduino, laser cut mechanisms, servo motors.