

Art22: Intro to Electronics for Intermedia Assignments

Assignment #1: Get Junk

Grade	5% Of Assignments Total
Start	Class 1, Tuesday, January 5th, 2010
Deadline	Class 3, Tuesday, January 12th, 2010

Scour flea markets, thrift stores, yard sales, etc. for junk toys, motors, and switches. You'll need at least one sound-making electronic toy (battery or AC adapter powered) to hack. Older toys generally work better. Also, cheap keyboards and other instruments are good for hacking. Bring as many as you can find.

Writing Assignment:

Grade	20% Of Assignments Total
Start	Class 2, Thursday, January 7th, 2010
Deadline	Class 15, Tuesday, February 23rd, 2010

Research an artist that uses electronics, robotics, sound or light in their work. Discuss their overall art practice. Pick a specific artwork and discuss how the electronics operates conceptually/metaphorically in the piece. Typed, five pages double-spaced (not including images), 12pt Times or Arial type, 1-inch margins, plus bibliography.

Assignment #2: Circuit Bending

Grade	10% Of Assignments Total
Start	Class 3, Tuesday, January 12th
Deadline	Class 7, Tuesday, January 26th, 2010

Using two screwdrivers or equivalent probing devices with a wire attached between them and touch parts of the toy's circuit to see what kind of sounds you can make. Solder wire to the circuit and add a potentiometer or switch.

Assignment #3: Sensing LED Sequencer

Grade	10% Of Assignments Total
Start	Class 7, Tuesday, January 26th, 2010
Deadline	Class 11, Tuesday, February 9th, 2010

Build an LED sequencing circuit with a controlling sensor on a breadboard and test it. When complete, create a sculptural piece with the LED's and circuit.

Assignment #4: Sensing Servo Circuits

Grade	10% Of Assignments Total
Start	Class 11, Tuesday, February 9th, 2010
Deadline	Class 17, Tuesday, March 2nd, 2010

Build a servo motor circuit. Program the piece with both chaotic movement and rhythmic movement. Use switches or sensors to control the servos. Incorporate the circuit into a sculptural object.

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Final Assignment:

Grade	30% Of Assignments Total
Start	Class 17, Tuesday, March 2nd, 2010
Deadline	Open Studios, Friday, March 12th, 2010

Select two of your previously built circuits and combine them in a creative way *or* build a completely new circuit. Take the object and create an installation or performance with it for Open Studios.