

Art22: Intro to Electronics for Intermedia Assignments

Assignment #1: Get Junk

Grade 5% Of Total

Deadline Class 4, Tuesday October 7th, 2008

Scour fleamarkets, 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 15% Of Total

Deadline Class 14, Thursday, November 14th, 2008

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 5% Of Total

Deadline Class 6, Tuesday, October 14th, 2008

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: LED Sequencer

Grade 5% Of Total

Deadline Class 8, Tuesday, October 21st, 2008

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

Assignment #4: Sensing Sequencer

Grade 5% Of Total

Deadline Class 10, Tuesday, October 28th , 2008

Replace a resistor on your LED Sequencer with a sensor.

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Assignment #5: More Interactivity

Grade 5% Of Total

Deadline Class 12, Tuesday, November 4th, 2008

Change the resistors on your LED Sequencer with potentiometers. Add more sensors to the circuit.

Assignment #6: Servo Circuits

Grade 5% Of Total

Deadline Class 14, Thursday, November 13th, 2008

Build a servo motor circuit. Program the piece with both chaotic movement and rhythmic movement.

Assignment #7: Sensing Servo

Grade 5% Of Total

Deadline Class 16, Thursday, November 20th, 2008

Replace the switches on your servo motor circuit with sensors. Again, program the piece with both chaotic movement and rhythmic movement.

Final Assignment:

Grade 35% Of Total

Deadline Final Class #19, Thursday, December 5th , 2008

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.