Jenna Ko
Art and Technology
Final Project Proposal

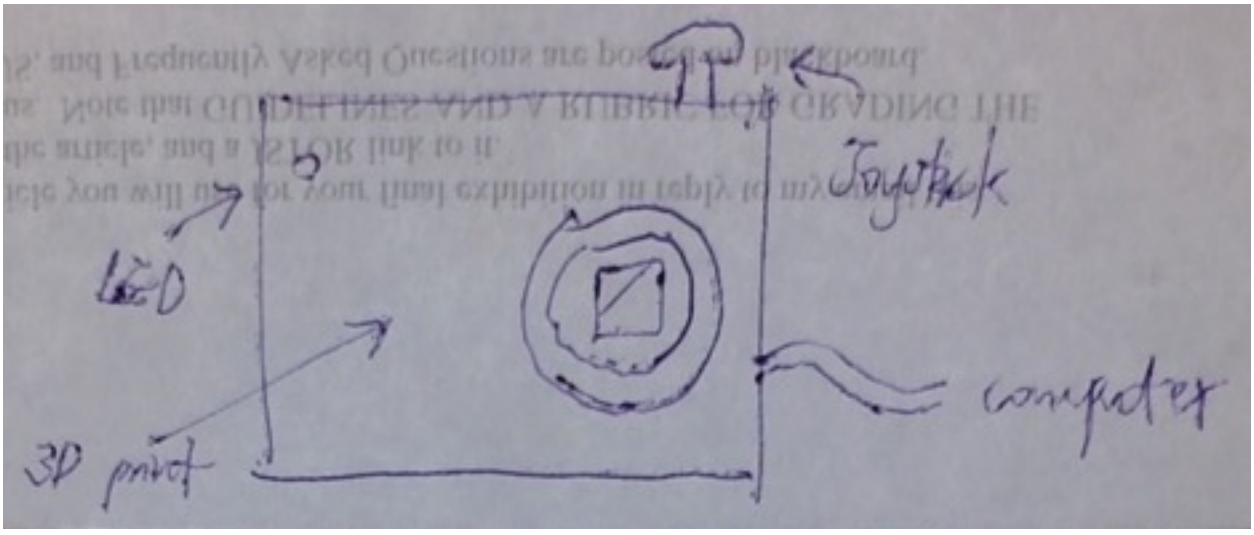
Conceptual Description of the Project

I am planning to make a "Joyful Camera" with computer programs that we have learned so far. The camera should be able to flash and make a sound when someone takes a photo. Also, it should save the picture in the computer when the joystick is pressed and have options for various effects such as black and white, floating objects, face recognition effects, etc. It would be a collaboration between Processing and Arduino to create a hybrid of camera and camera app. The appearance of the camera will be created with the Arduino kit and 3D print, while the screen and photos will be produced by Processing.

Technical Description of the Project

I will be using Processing for the screen and photos and Arduino kit and 3D print for the appearance of the camera. Arduino will be connected to the computer and be covered with a 3D printed camera shell. An LED light will be used for the flash, and a speaker will be used for the sound. The joystick will be used to switch the effects and take photos. In the Processing, I will have to figure out how to use the camera, make it recognize the face, and put effects on it. When the joystick is pressed, it should save the photo on the computer.

Rough sketch of the project idea



Materials List for the project

Arduino kit (Arduino, LED, speaker, joystick)
Computer