Lab 5
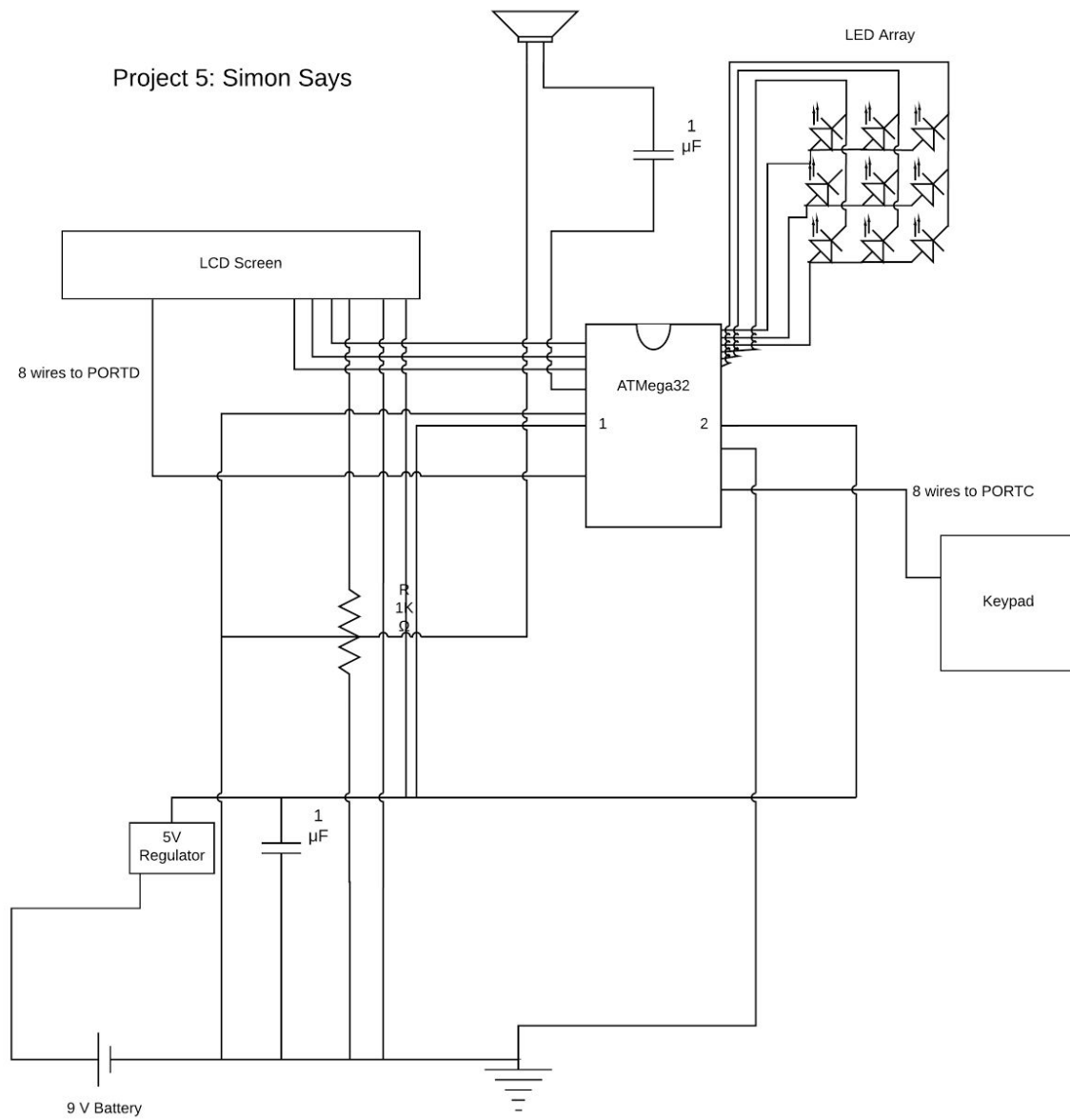# Topics: Simon Says Game
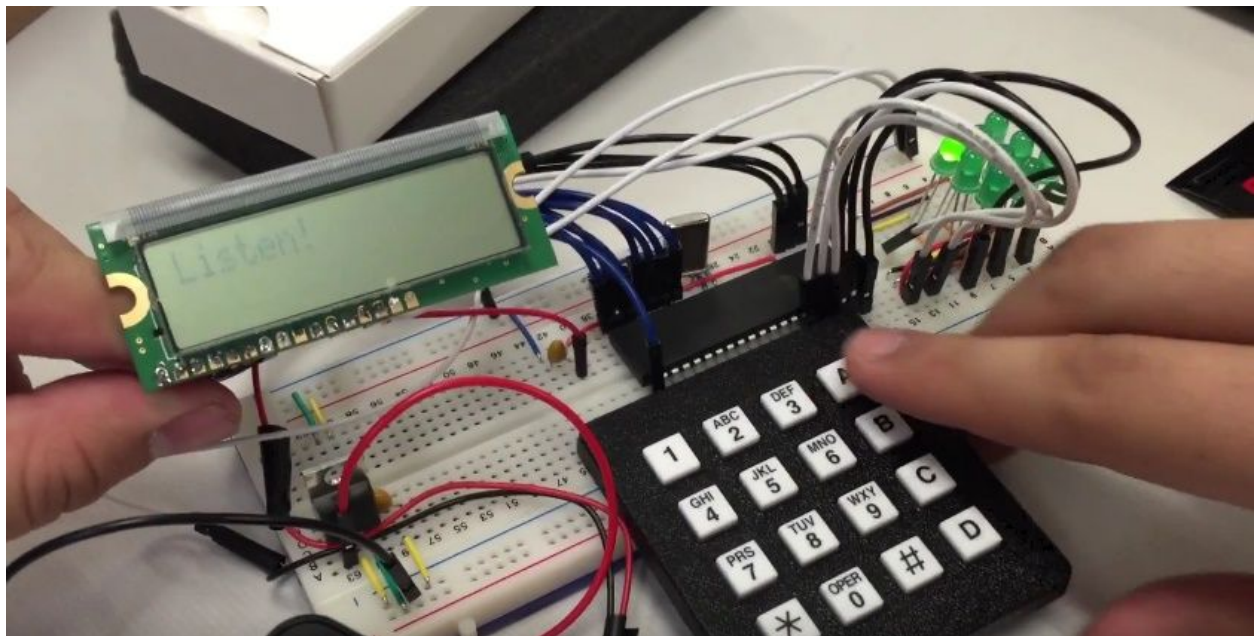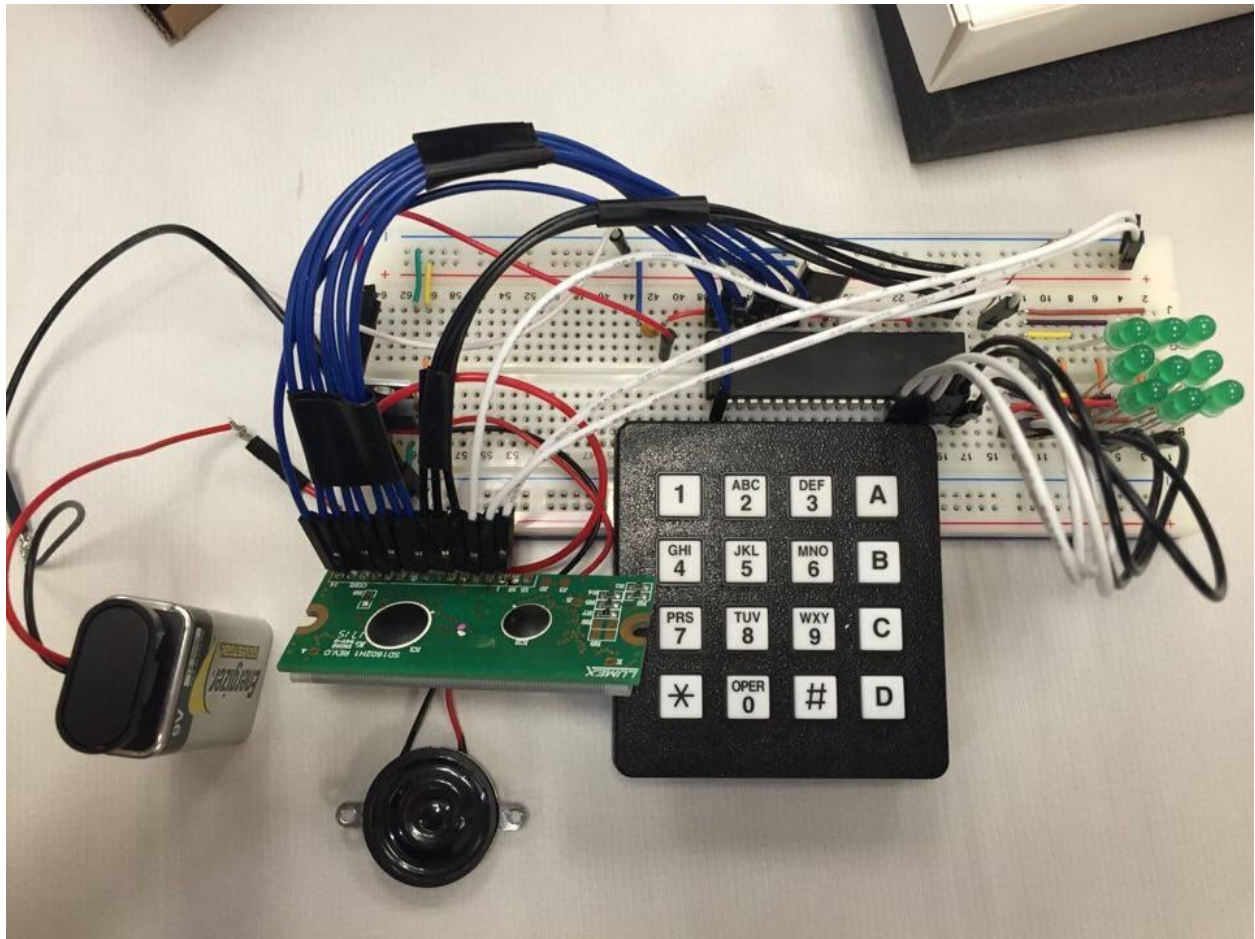
Aaron Zhong 67737879
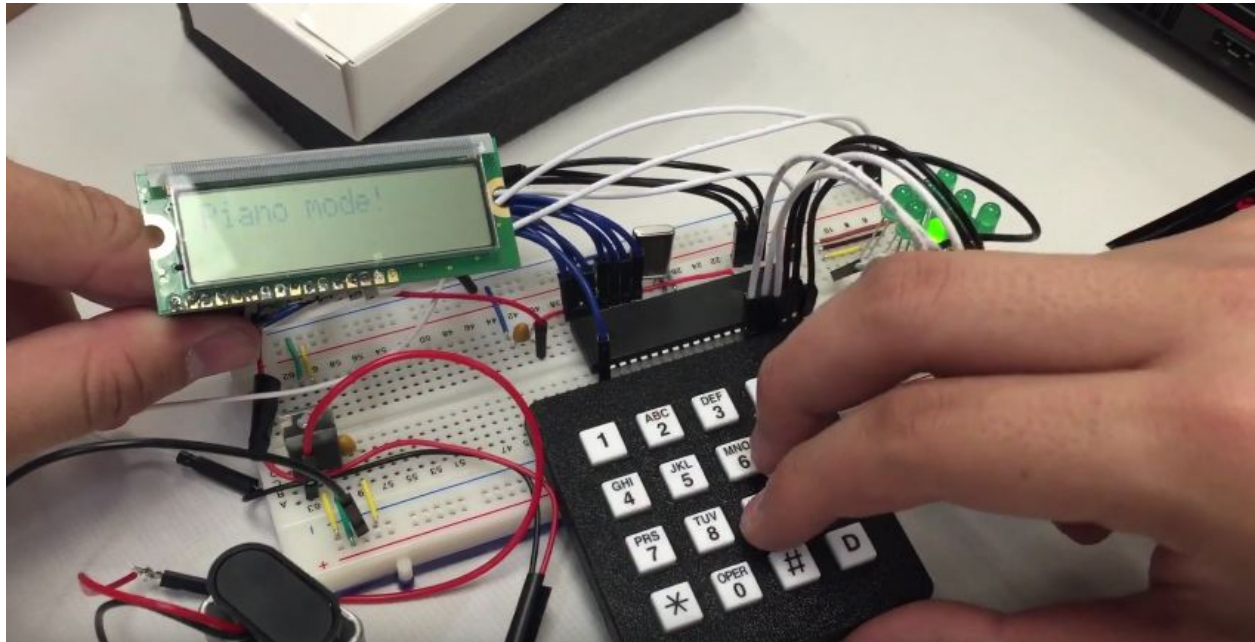
05/25/16

Schematic

Project 5: Simon Says

LED Array

1 μF

LCD Screen

8 wires to PORTD

ATMega32

1   2

8 wires to PORTC

Keypad

R
1K
Ω

5V
Regulator

1 μF

9 V Battery

Images

Video Examples

https://youtu.be/EjI8whOFOv0
https://youtu.be/vqjgABhYxdA

Homework

Code (also attached in zip)

---------- *self written* ----------

main.c
http://pastebin.com/h6Ud7jWq

keypad.c
http://pastebin.com/JUiqyCq6

keypad.h
http://pastebin.com/d2s2sk2A

music.c
http://pastebin.com/tTURywbG

music.h
http://pastebin.com/B6msVmGi

---------- *modified* ----------
avr.c
http://pastebin.com/BkdLjvBF

---------- *provided* ----------

avr.h
http://pastebin.com/eCAmenxv

lcd.c
http://pastebin.com/HTR02mJt

lcd.h
http://pastebin.com/tTPiWtfy