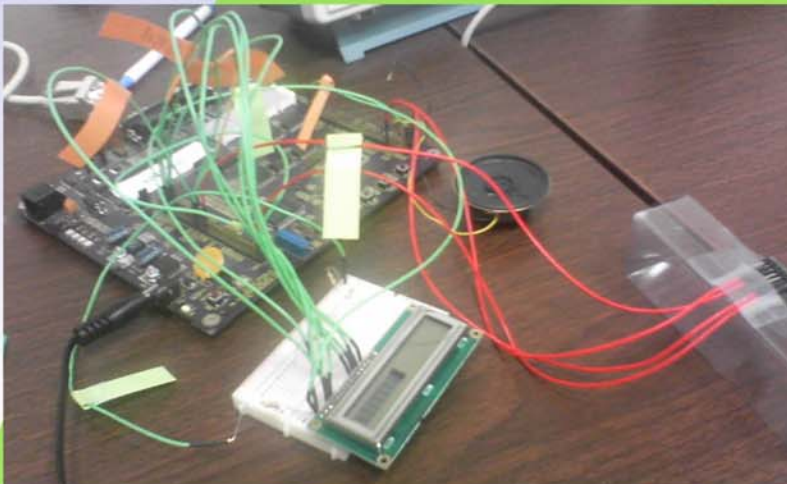
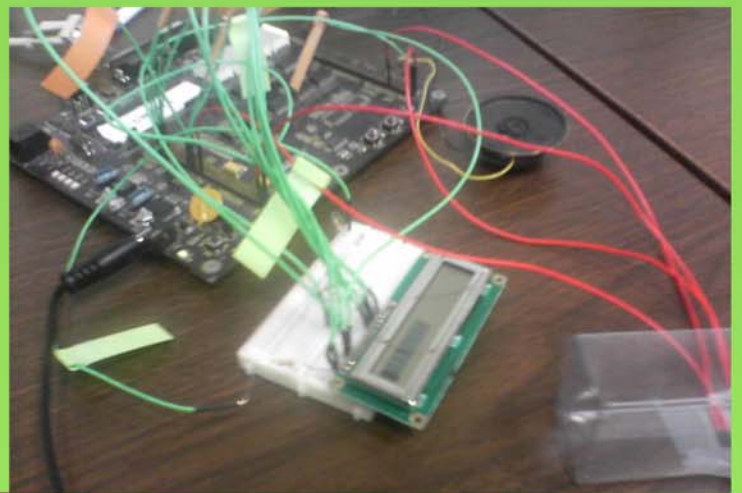


Accelerometer-Controlled Electronic Keyboard

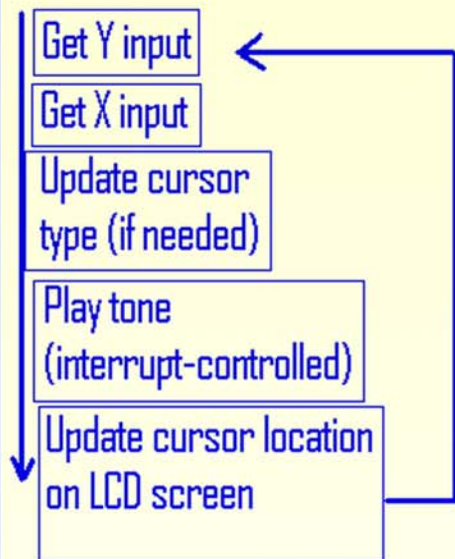
Use a two-dimensional
accelerometer to control a
small electronic keyboard!



**Created By:
Daniel Gerber**

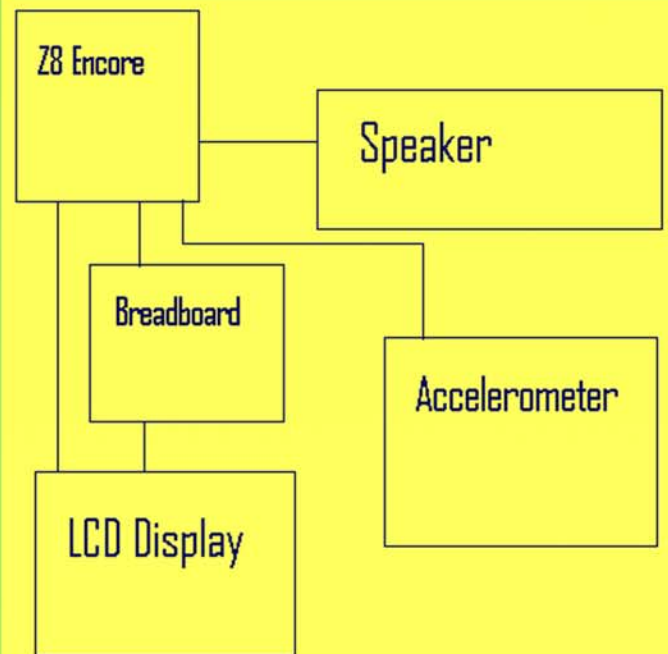
Accelerometer-Controlled Electronic Keyboard

Program Flow Diagram



This is a small, accelerometer-controlled electronic keyboard that is controlled using the Z8 Encore. It features an LCD display for visual feedback, a speaker for audible feedback, and a two-directional accelerometer for user-input. By tilting the accelerometer along one axis, the note being played changes (along with the corresponding “bar” on the LCD, while the other axis is used to change the cursor on the screen.

The basic hardware components needed for this project are as follows: One Z8 Encore developer’s kit, one Accelerometer Breakout Board – ADXL202JE +/- 2g (available from Spark Fun Electronics), one two-wire computer speaker, a few resistors, one breadboard, one MDL(S)-16166 LCD display (or similar 16x1 display), and approximately 17 connector wires.



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