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Embedded Systems  
Final Project Proposal

**Name:** RSS Displayer

**Purpose:** To use a board with an internet connections to retrieve RSS feeds and use an accelerometer to control the display.

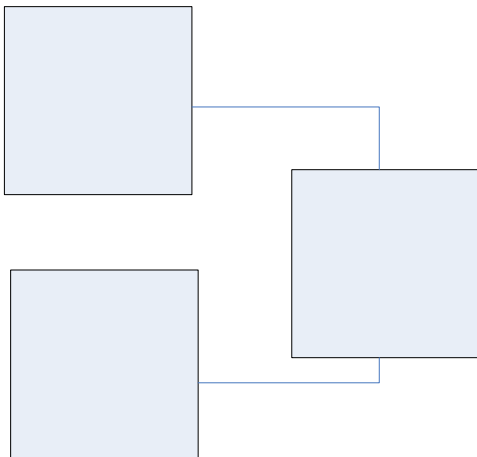
**User Interface:** LCD display, scroll speed controlled by tilting accelerometer.

**Performance:** Since RSS feeds are small, time to connect and receive should be shorter than 2 seconds.

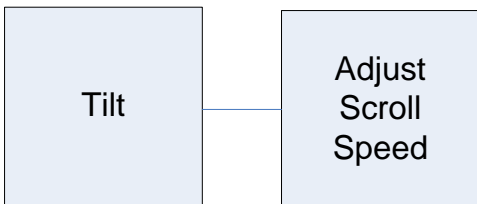
**Cost:** \$200 in materials

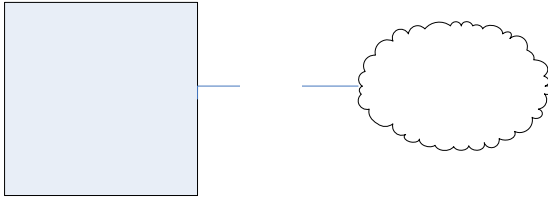
**Physical Size:** Accelerometer should fit in the palm of the hand.

**Hardware Architecture:**



**Software Diagram:**





## Hardware

I will be using a TINI board, a 16 character LCD and an accelerometer for this project. I

will probably have to use an analog-to-digital converter to read the accelerometer values

so the TINI can use them. I am still searching for a suitable LCD and accelerometer. The

LCD and analog-to-digital converter will be wired to the GPIO ports on the TINI.

CPU

Retrieve  
RSS feed

Internet