Engr202 – Biweekly 3 – Section 61 – Group 9

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App Idea

Our idea is to create an app that will allow a person to tilt the accelrometer to move the mouse cursor on the computer around.

Why it is useful

This app will provide the user with another method of interacting with the computer. Instead of having to physically drag a mouse around to move the cursor, a simply tilt of the wrist will move the mouse cursor around. In adition, since an accelerometer is being uses, no tracking device needs to be mounted for a view of the accelerometer. Eventually the accelerometer can be made to wirelessly transmit the data for greater freedom of movement.
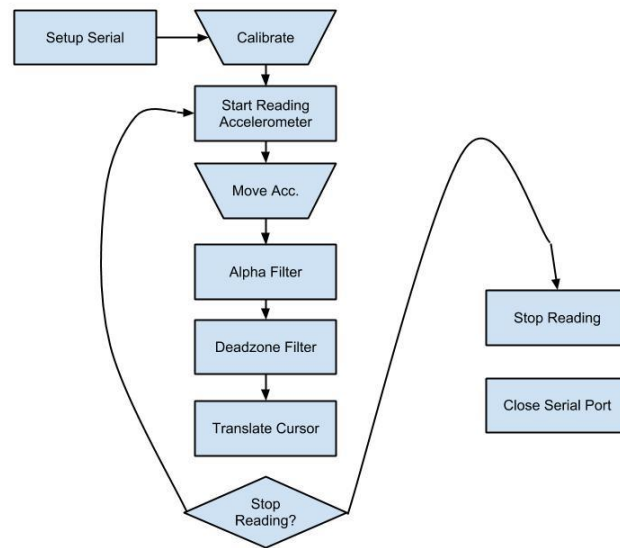
Features & User Experience

The feature of the app will be to allow the user to control their computer cursor without a mouse. They will also be able to set the deadzone angles as well to customize their use of the device.

Technical Challenges & Preliminary Plans

The technical challenge will be how to make the accelerometer control the cursor on the screen. The current goal is to use a java library that will translate data fed to it as cursor movement commands.

Another technical challenge is to make the angles to move the cursor in a way that makes sense to the user intuitively. The current plan is to make a tilting up an down move the cursor up and down and rotating left or right will move the mouse left or right.

Flowchart

App Gui