

# Writing Assignment 4

***Due Wednesday Nov 25 before mid-night.***

## Overview

What if you could connect your Arduino to your cell phone via WiFi or Bluetooth. Imagine that you also had access to a wide selection of sensors including those we have discussed in class plus accelerometers, GPS, touch screen, a compass, and a variety of biometric sensors that could be connected to the Arduino. Well, this possibility already exists and may be part of a class next semester. Given this setup, what kind of killer phone app would you design?

Here's the idea. Normally cell phone events are linked to the phone itself. When your cell phone is ringing, your phone speaker plays a ringtone. When you get a new text message, your phone displays it on its screen. Wouldn't it be thrilling to make those phone events visible somewhere else, on your wearable, in your living room, on your robot, in your office or where ever you want it to occur? Or would you like to use your cell phone sensors, like the accelerometer, light sensor, compass or your touch screen to control other devices?

Start by reading this New York Times [article on future cell phone apps](#), and then try to imagine a killer app of your own design using the Arduino to extend the “physicality” of your phone. Don't worry about the chunkiness of the Arduino, instead imagine that the Arduino and its accompanying sensors are package as a sleek, small extension to the phone. Focus on the functionality of your application and the sensors needed to create that functionality.

## Requirements

Write a one to two page persuasive (a.k.a., [argumentative](#)) essay that describes your killer phone app and convinces me to buy it. Write the essay as if you were selling the application. As part of your sales pitch, discuss the technical merit of your application and compare it to other cell phone applications such as those mentioned in the New York Times article. Remember that your introductory paragraph must contain your **thesis statement, a one sentence summary of your argument**. Your thesis statement must not only state your position (i.e., buy my awesome app) but also present your justification (why is it awesome and why do I need it).

After stating your thesis in the first paragraph, use the remaining paragraphs to support your argument for buying your application; the argument summarized in your thesis

statement. Each paragraph should present a distinct facet of your argument. As always, proofread your paper a day after you write it. Make sure that you:

1. have a one-sentence thesis statement in the first paragraph;
2. present your argument using facts, quotations, and other well-articulated evidence;
3. anticipate and address foreseeable counter-arguments;
4. structure your writing in an organized way;
5. choose precise and effective language;
6. use the active voice; and
7. double space your paper and use a 12 pt font.