

**Mobile Devices****Name** \_\_\_\_\_**Partner (s)** \_\_\_\_\_**Grade** \_\_\_\_\_/10**Introduction**

- The goal of this lab is for you and your lab mate(s) to be creative and think of a use for the sensors in your mobile devices.

**Objectives**

- Stimulate creative thinking;
- Successfully link a mobile device to a Matlab session;
- Post-process the data appropriately.

**Equipment Provided**

- Lab station.

**References**

- Instrumentation text book;
- Course web page.

**Procedure**

- It's time for you to get your creative juices flowing. You will do so by collaborating with your lab-mate(s) to generate a new and creative use for the sensors in your mobile devices. Here is a list of tasks to accomplish:
  - Download the mobile Matlab app to your smart phone.
  - Get it communicating to your personal copy of Matlab on your (or your lab mate's) laptop.
  - Download data from one or more sensors into Matlab.
  - Process the data.
- It's up to you to decide what to do with the data. Any tools available in Matlab are fair game for data analysis and presentation.

**To Turn In**

Each person needs to staple the following items to this handout and turn them in:

- One-page summary of your idea, implementation, and result;
- Plots as appropriate;
- Anything else that will help document your application.

Also, place a copy of your verbosely commented Matlab code in the lab#5 drop box on D2L.