**WEEKLY PROGRESS REPORT:**

**Date**: October 27th, 2014

**Project Name**: Portable, Low-Cost, Pneumonia Diagnostic Device

**Group Number**: 17

**Group Members**: Lauren Bedell, Shay Aluko, Clark Ingram

**Current status of project**:

Last Monday, the design team met with Professor Moran to discuss the Pugh Chart that had been created and to discuss aspects of the selected final design: the tracheal sound analyzer. On Tuesday, the selected final design was written and compiled with the remaining information for a draft of the Written Progress Report. After the paper was compiled, preliminary work was done on implementing the final design. Shay and Lauren worked on reading electrical data from an Arduino microcontroller into a Python datastream. Clark began researching properties of neural networks and determining a method to use neural networks to classify pneumonia vs. non-pneumonia tracheal sounds.

**Work planned for next week**:

 The group plans to discuss with Professor Moran finding time series data of patient’s tracheal lung sounds. In addition, the group will purchase an electret microphone and begin recording acoustic signals and attempting to measure the signals on an Arduino.

**Anything needed from client or TA or instructor to continue work**:

Nothing further should be needed from the TA or instructor to continue work this week.