

## MEETING MINUTES 10/9/17

### EXECUTIVE SUMMARY

Individual assignments due Friday have been divided between Team 3 members. There was also some discussion regarding how to best utilize Team 3's efforts re: Arduino research.

#### **7:00** – Talking to Client

Danny discussed engineering requirements with client, which were put into report. Fast Fourier Transform (FFT) to decompose signal into parts to be analyzed(?).

#### *Memo due Friday:*

The following analyses have been assigned as individual tasks, to be due on Friday on BBLearn:

Jacob Head—Vibrational analysis

Mitchell—Foldable/Collapsible Apparatus

Danny Matthews—FEA; testing deflections in beams using SolidWorks

Zachary McCormick—Truss Stiffness Analysis

#### **7:10** – Note regarding Arduino

Arduino mainly for prototyping, will need to purchase a PCB board later; solder a dedicated chip when ready for permanent installation.

LVDT (Linear Variable Differential Transformer): telescoping rod with two coils—when excited, precise distance can be measured—works well with Arduino.