**EXG Shield**

* An Arduino shield that can measure EMG, ECG, EOG, and EEG based on the switch or button pushed (indicated by a light)
* Displayed on a display (non-laptop?)

**Rowing Output Performance**

-using EXG to measure how certain measurements lead to higher performance in rowing workouts

-could you use differences in pressure in legs to determine what direction the user wants to go? (rowing bike project?)

**Wake up call**

-using EOG to measure sleep patterns and find a way to wake people up

**Brace for impact**

-use a EMG to measure if the user is flexing, activating a foldable shield/ protective attachment?

**Measure extent eye signals (EOG) can be measured**

-could it be used to determine dilation in a dark room?

-LED glasses?

**Measure extent muscle signals (EMG) can be measured**

-could it be used to determine stiffness of muscles

-could a rapid signal determine if a person is bouncing their foot/ foot direction/posture/ expressions? (other social ques to determine attitude or mood)

**Measure extent heart rate signals (ECG) can be measured**

-could measure stress if paired with oxygen levels?

-measure happiness in brain?

-cell regeneration?