

Homework 1: Variables and Sensors

Overview

For this assignment, you will *individually* brainstorm and create three lists.

1. Relevant variables related to the motion of a surfer on a wave. As you create this list include how you might collect the data for each variable you have listed.
2. Relevant variables related to wave dynamics. As you create this list include how you might collect the data for each variable you have listed.
3. How many ways can you think of to combine variables from each of the above 2 lists? List those variable combinations and include the relevant physical connection you are thinking you can capture.

Requirements

The first two lists should have at least 5 variables on them and a decent number of sensors to accompany them. Do *not* consider what the class has access to while creating these lists, just name anything and everything that comes to mind.

Grading

This assignment will use a pass-fail scheme. If your lists of variables is deemed not sufficient by the instructor, you will receive a 0 with the option to redo. Otherwise, you will receive full credit.