**Lab 03: Introduction the DS4 and Functions**

**LAB # 3**

**SECTION # 3**

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# Problem 1: DualShock 4 Data Collection

Motion 1: Horizontally inverting the controller

A graph showing different types of data

Description automatically generated

Motion 2: Vertically inverting the controller.

A graph showing a number of different types of data

Description automatically generated with medium confidence

Motion 3: Tilting the controller.

A graph of a graph showing the same size of a line

Description automatically generated with medium confidence

# Problem 2: Introduction to Functions and DualShock

Version 1: Echoing OutputA screenshot of a computer program

Description automatically generated

Running the program:

A screenshot of a computer code

Description automatically generated

Version 2: Magnitude Function

A white background with multicolored text

Description automatically generated

Acceleration Magnitude Output:

A screenshot of a computer program

Description automatically generated

Version 3: minutes/seconds/milliseconds time conversion:

A computer code with numbers and symbols

Description automatically generated with medium confidence

Version 3: Magnitude and Time Output:

A screen shot of a computer

Description automatically generated

# Problem 3: Counting Buttons

Version 1: Button State Output

A computer screen with white text

Description automatically generated

Button Count Code:

A computer screen shot of a computer code

Description automatically generated

Button Count Output:

A screen shot of a computer

Description automatically generated