**Hardware Architecture & Documentation**

**Introduction**

·      The main purpose of our smart water bottle is to automatically track water intake. This word doc will show the hardware components that will be used and how they will flow together.

**Hardware Components List**

1.     **MPU-6050 –** To measure gyroscope (angle) of bottle.

A blue circuit board with a few metal pins

Description automatically generated with medium confidence

2.     **Raspberry Pi 400 –** To read the data the MPU-6050 is measuring.

A white keyboard with red trim

Description automatically generated

3.     **Piezo Buzzer –** For reminding users to consume water after inactivity from MPU-6050.

A black round device with red and black wires

Description automatically generated

4.     **Jumper Wires –** To connect all the hardware components together to work.

A group of colorful wires

Description automatically generated

5.     **Breadboard –** To keep wiring clean.

A white rectangular object with holes

Description automatically generated

**Hardware Fritz Diagram**

**A circuit board with wires

Description automatically generated**