EE 3921

Dr. Johnson

Homework 13

1 – Run the accelerometer example from class. Start the program and record the average value and approximate variation for each of the 3 axis, in 4 orientations - 80 pts



Interpret the numbers from the first orientation in terms of g (gravity on earth) - 20 pts

The accelerometer is set to show 0g when not accelerating Since it is located on the earth, there is a 1g gravitational acceleration downward Your value (252) in the z direction represents the table pushing up with 1g force (1024 / 2 / 2 = 256 10bit +/- 2g