Hoyek

Zavala

Oliveira

Carter

Quiz 2

Chart

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Time (s) 0 1 2 3 4 5 6 7 8 9 10 11 12 13

Commentary

In order to walk like a robot, I placed the Nexus 7 flat onto my hands which were held out at a ninety degree angle, then I slid my feet slowly across the floor to move smoothly and to avoid bouncing up and down. I started the application when I was standing still (I stood still for one second before moving), then I walked forward at about one half of a meter per second for four seconds, paused for three seconds, continued forward for four seconds, stood for one second, then stopped the program.

Interpretations

Notice that the Z values in the chart are by far greater than the X and Y values. This is because the tablet's accelerometer mostly was horizontal with the screen facing up during this test and stayed in this position during the entire test (the Z axis remains at its highest when the tablet's screen is facing upward and lowest when the tablet's screen faces the floor). The X, Y and Z values fluctuated much less during the very beginning (seconds 0-1), middle (seconds 5-8), and very end of the test (seconds 12-13). This can largely be attributed to the fact that these readings occurred during the time when I stopped walking. Standing still, rather than walking, keeps the tablet from tilting and causing volatile accelerometer readings. The most turbulent readings were recorded between seconds 1-5 and 8-12 because that is when I was walking and thus causing the tablet to tilt upon the axes of its accelerometer. Also, I noticed that there were short consistent readings at seconds 3 and 10. These brief terms of nearly constant readings may haven been caused by the fact that I had both feet together during those seconds while getting ready to take another step forward. This may have caused my body to be still and exert less movement onto the tablet, which caused more mild readings.