

Friday, July 16th 2010

Week 9 Assessment:

Daniel Kennedy

Continuing comparing the motion of two devices:

Modified the device code to output points to a text file

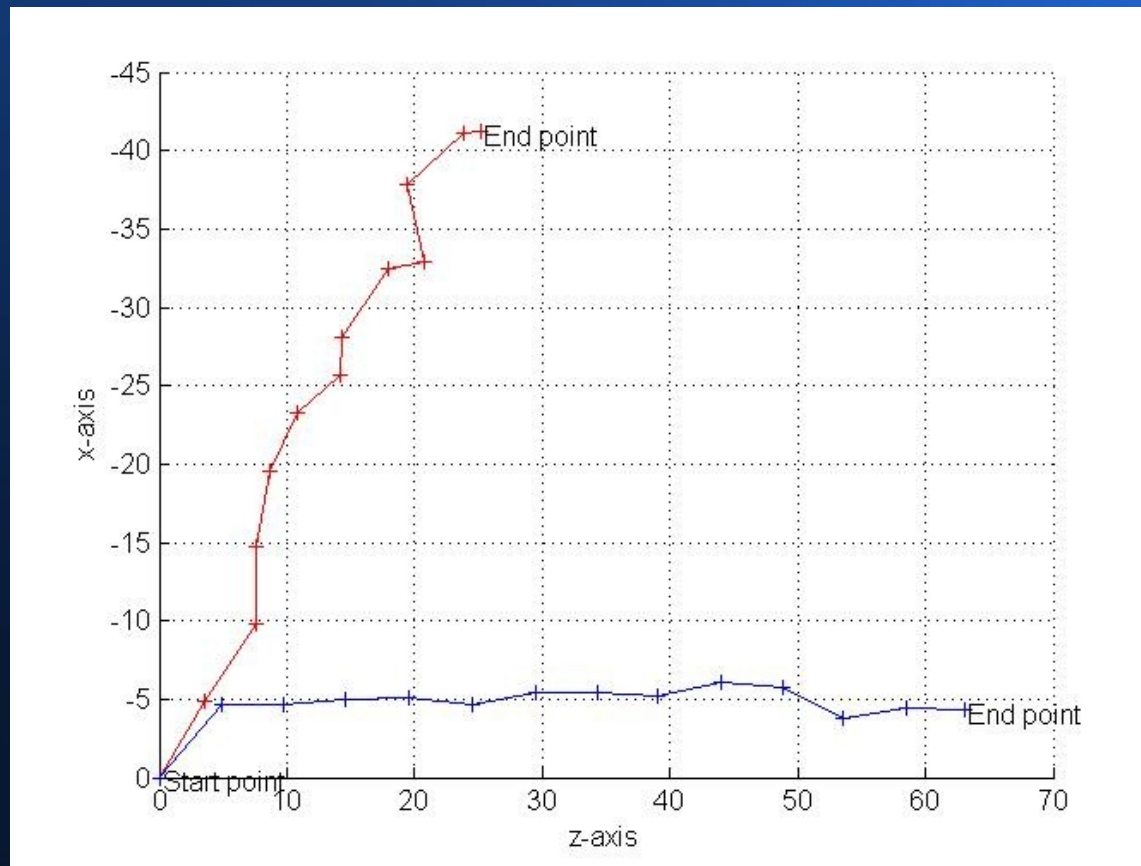
These text files are then loaded into matlab to generate tracks

I am now comparing simple tracks of point clouds from both devices

However, in experimenting with the device I've discovered several complications

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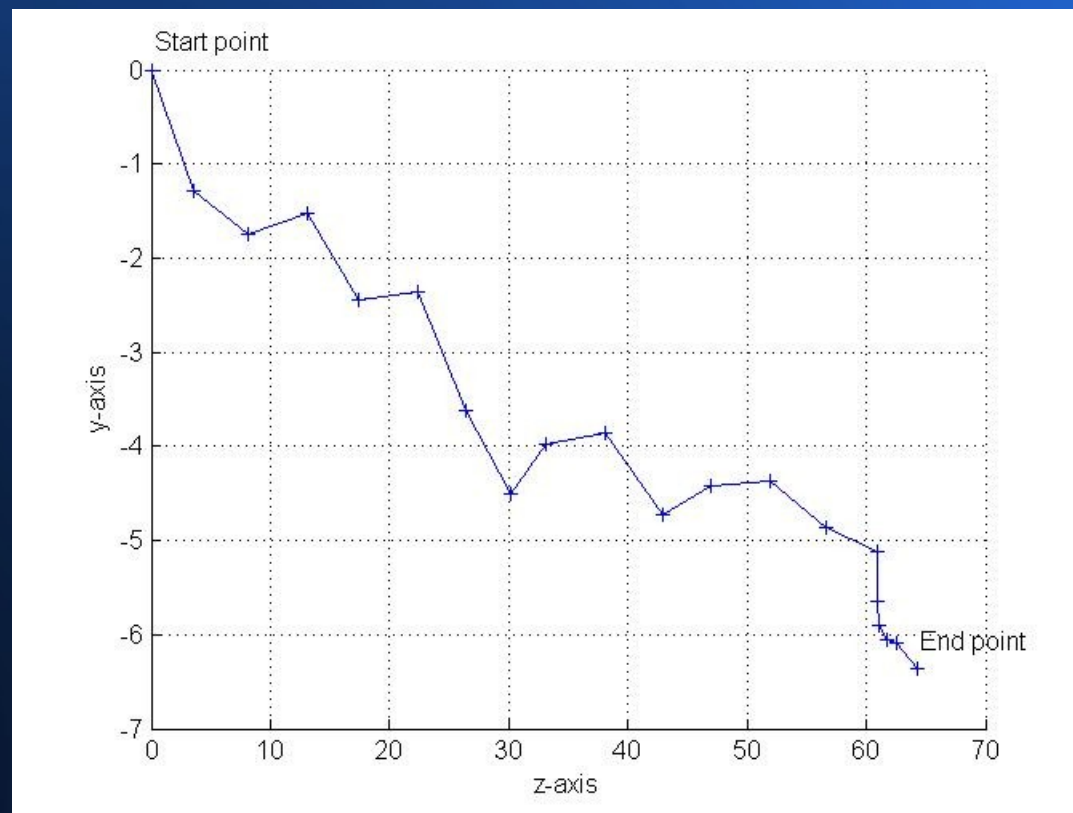
The main problem is one device records false motion



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Both devices also record downward motion when moved perfectly horizontally



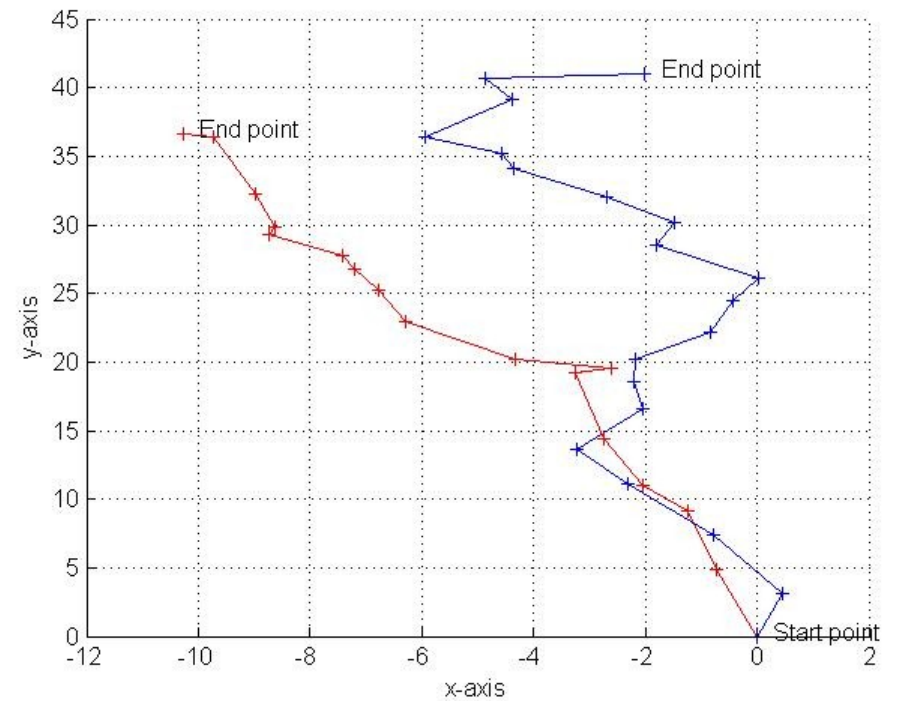
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Both devices are not guaranteed to record the same amount of points.

This makes it appear as if one device has moved further than the other

Red: 17 points

Blue: 20 points



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Plan of action for the next week:

Debugging the devices, especially the one that doesn't track its egomotion very well

When I have reliable enough tracks, write a program to determine whether two tracks are similar