

```
clear
clc

format long
TestDat = readtable('TEST3.csv');
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before c
Set 'VariableNamingRule' to 'preserve' to use the original column headers as table variable names.

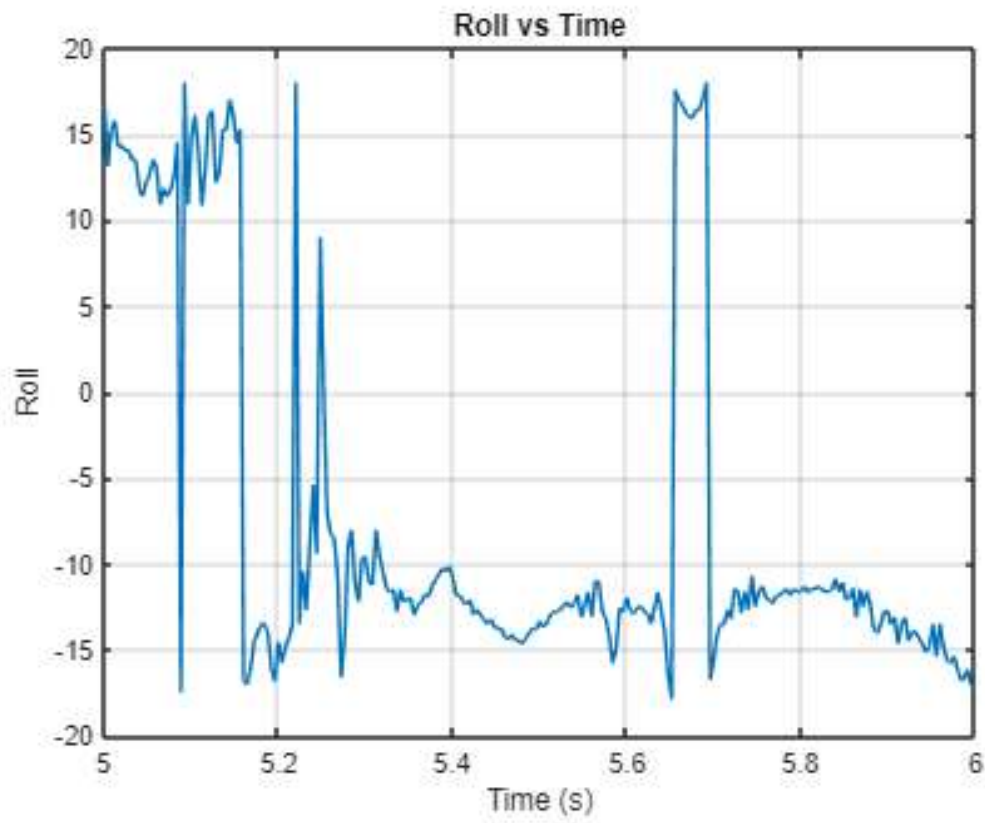
```
time = table2array(TestDat(:,1));
dt = table2array(TestDat(:,2));
scanNum = table2array(TestDat(:,3));
x1 = table2array(TestDat(:,4));
y1 = table2array(TestDat(:,5));
z1 = table2array(TestDat(:,6));

x2 = table2array(TestDat(:,7));
y2 = table2array(TestDat(:,8));
z2 = table2array(TestDat(:,9));

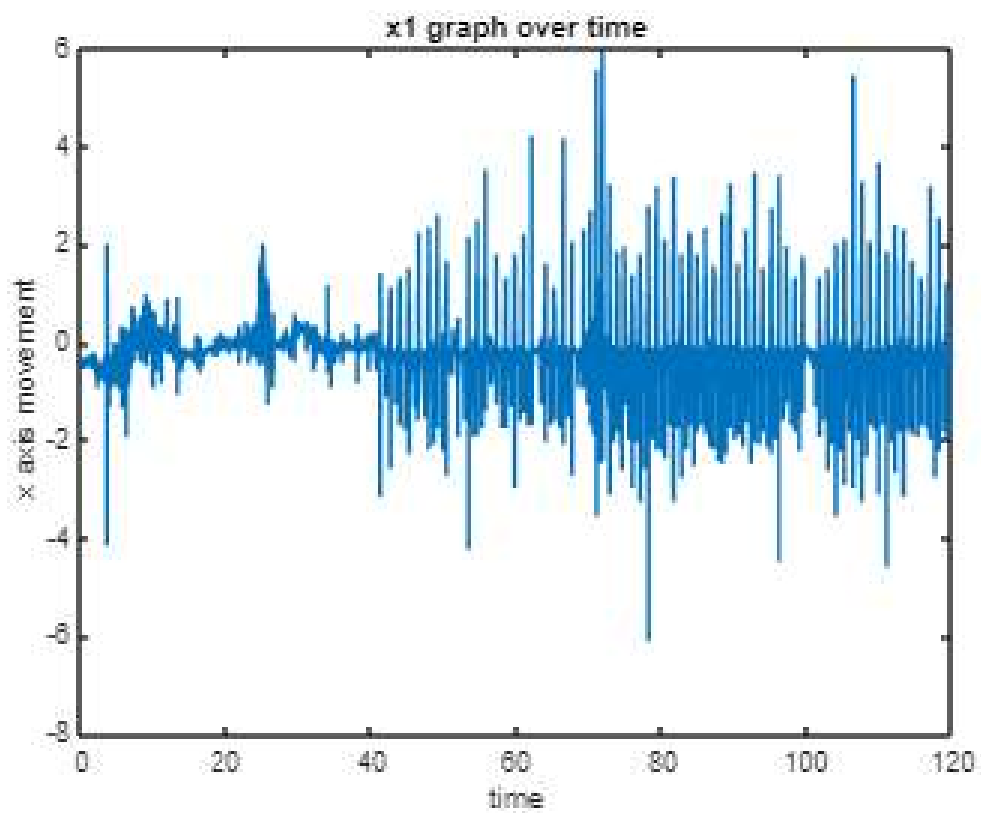
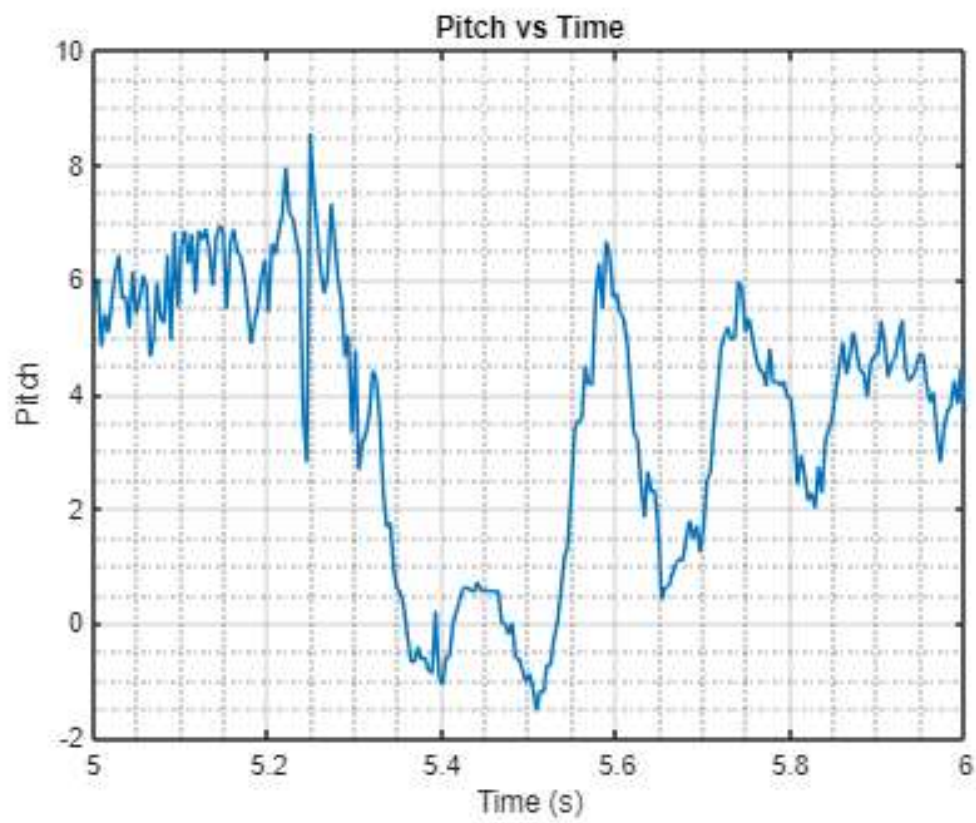
gx1 = table2array(TestDat(:,10));
gy1 = table2array(TestDat(:,11));
gz1 = table2array(TestDat(:,12));
```

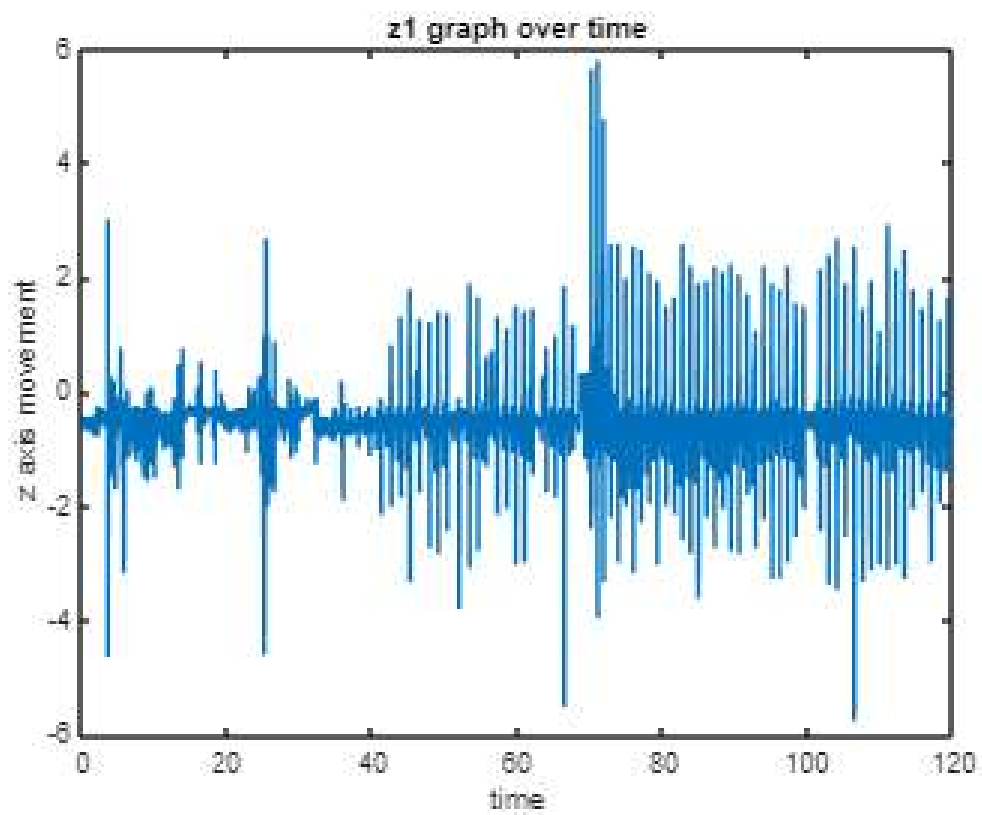
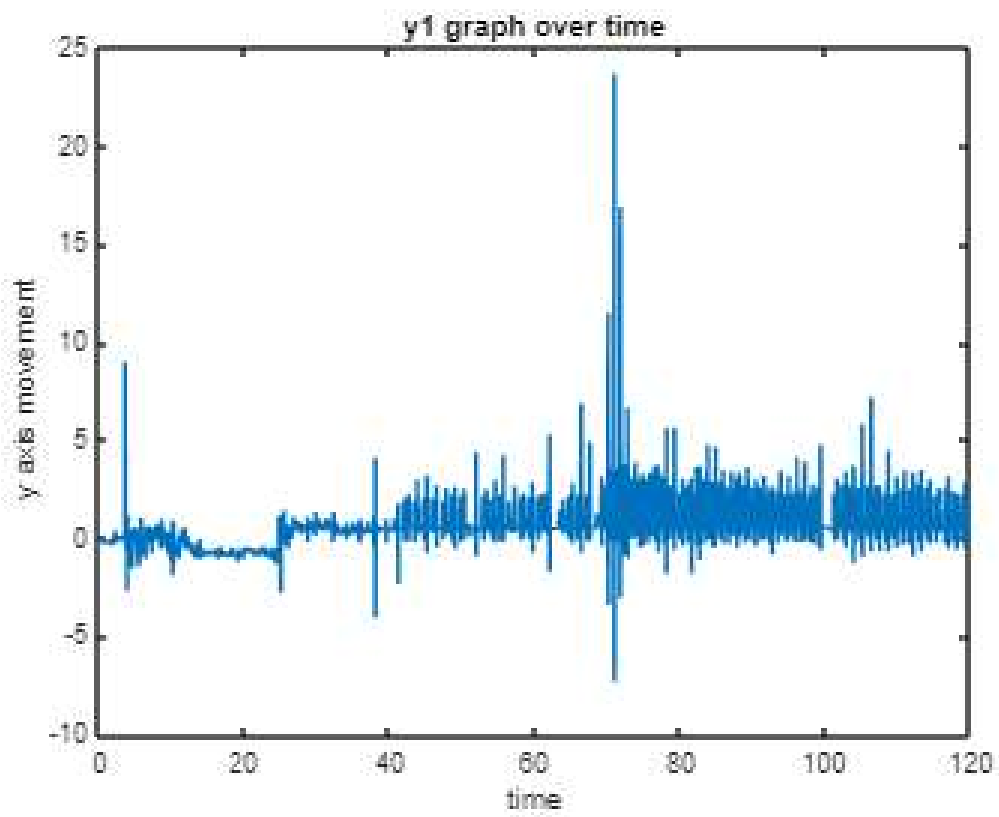
```
x_Buff = (x1);
y_Buff = (y1);
z_Buff = (z1);
roll = atan2(y_Buff , z_Buff) .* 5.73;
pitch = atan2((- x_Buff) , sqrt(y_Buff .* y_Buff + z_Buff .* z_Buff)) .* 5.73;

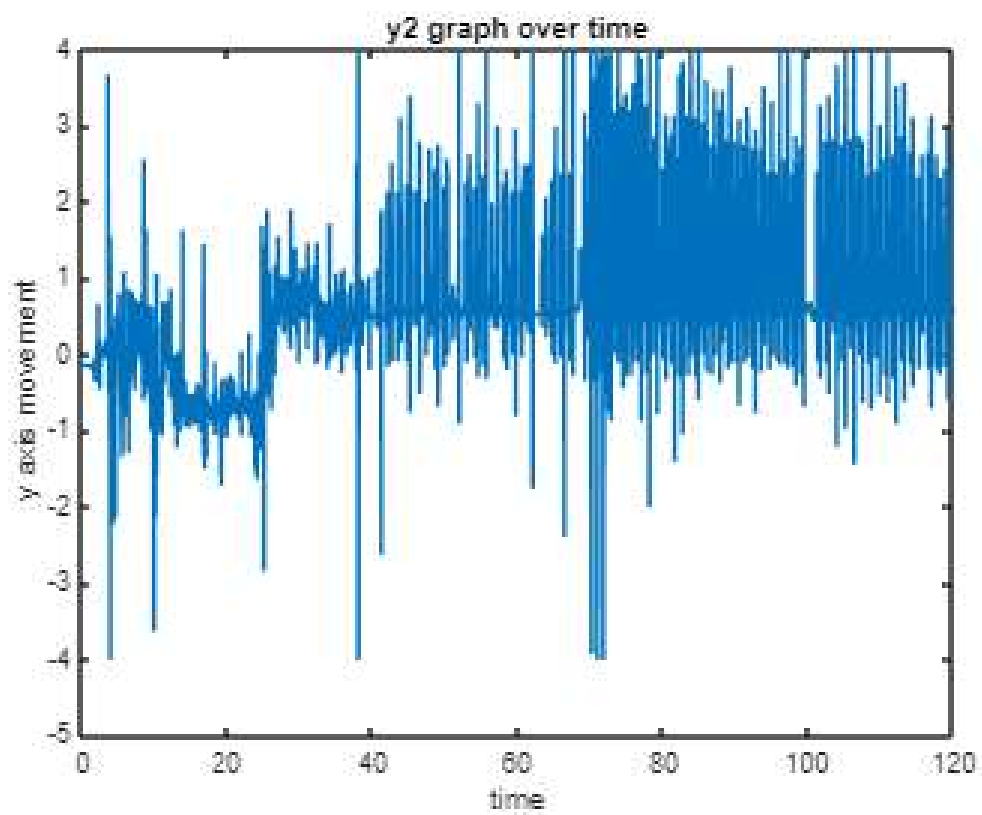
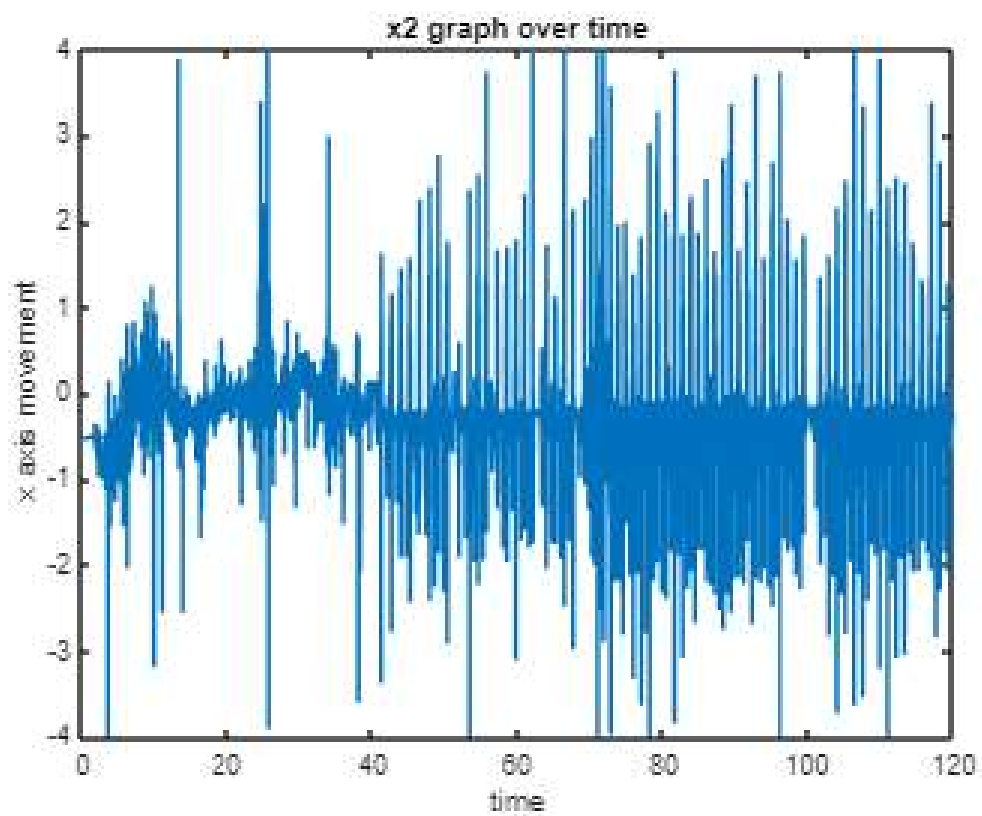
figure(55)
plot(time,roll)
xlim([15 16])
grid on
title('Roll vs Time')
xlabel('Time (s)')
ylabel('Roll')
```

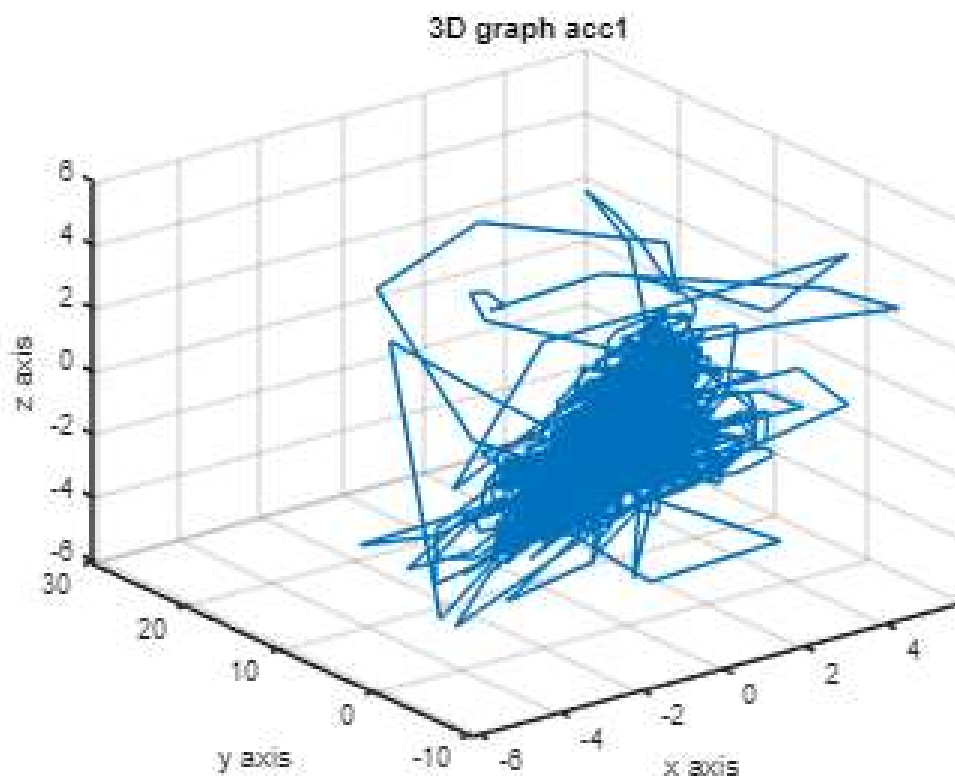
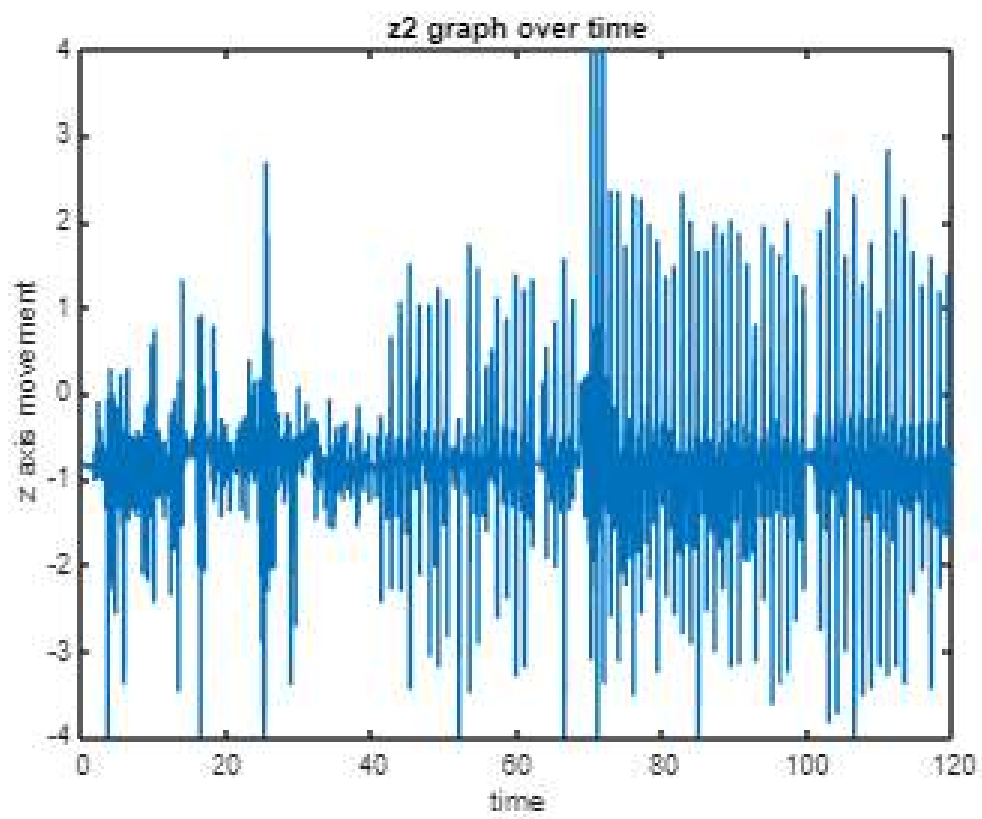


```
figure(56)
plot(time,pitch)
xlim([15 16])
grid on
grid minor
title('Pitch vs Time')
xlabel('Time (s)')
ylabel('Pitch')
```

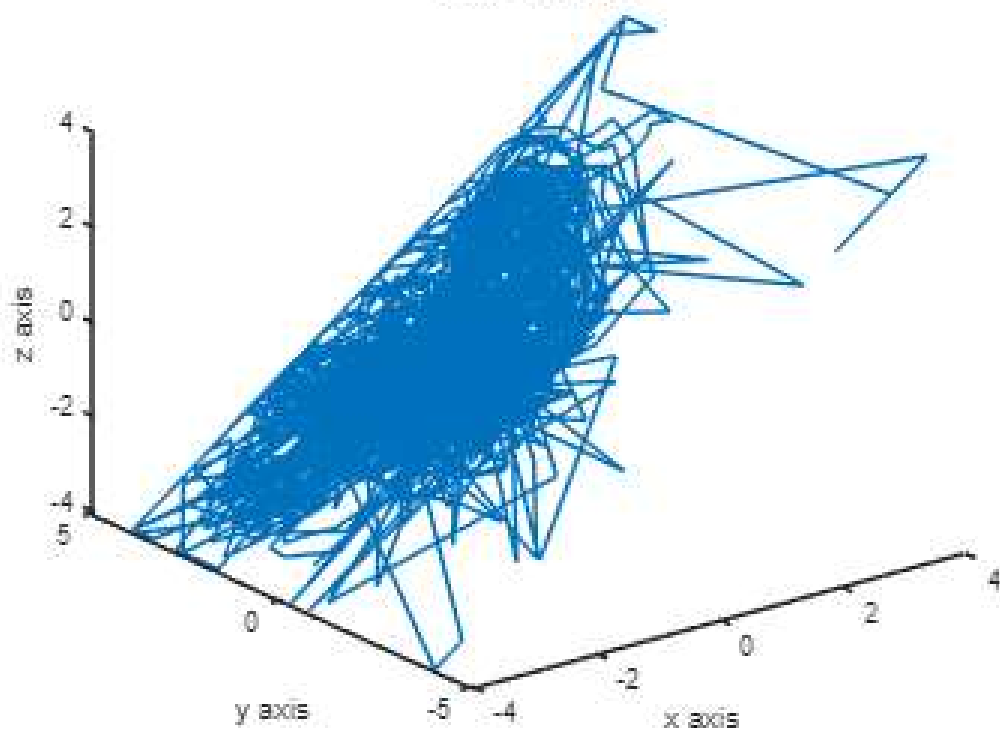








3D graph acc2



3D graph gyro

