TPMS

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Under the guidance of
Prof. Jayedeva

System

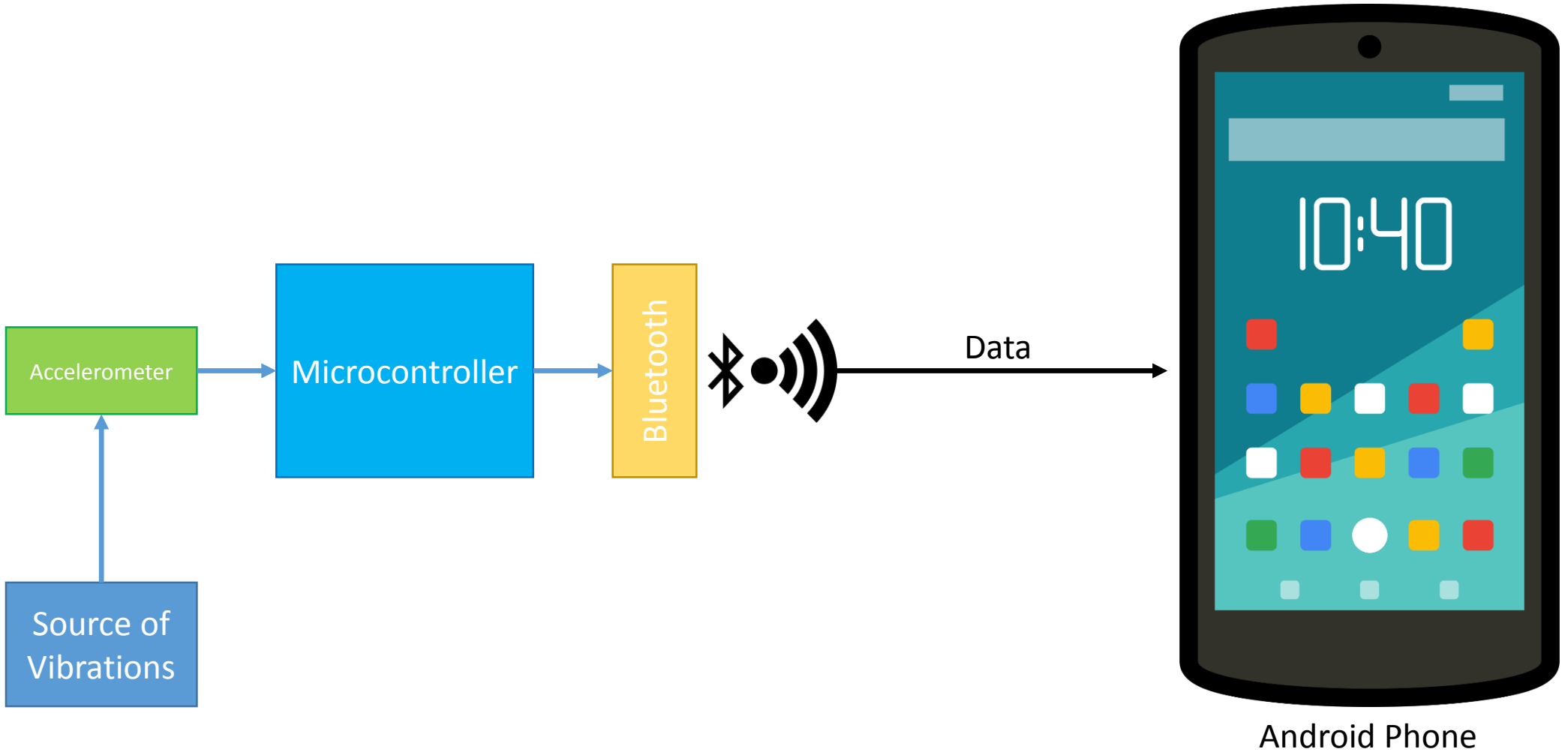
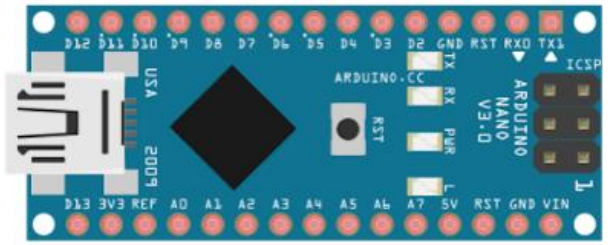


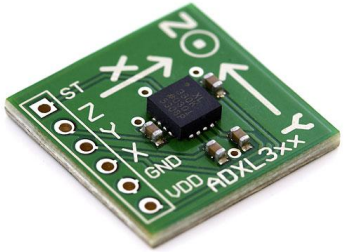
Fig. 1 System Block Diagram

Components used to realize the system

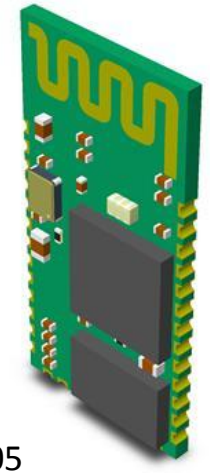
- Arduino Nano
- ADXL330
- HC-05



(a) Arduino Nano



(b) ADXL330



(c) HC-05

Fig. 2

Alpha Model

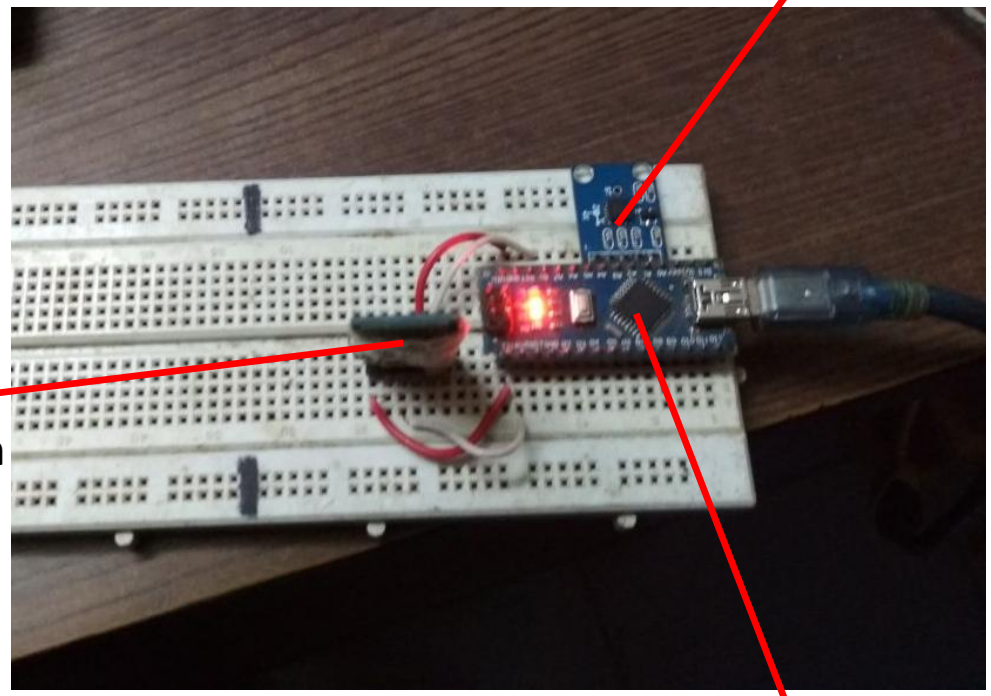
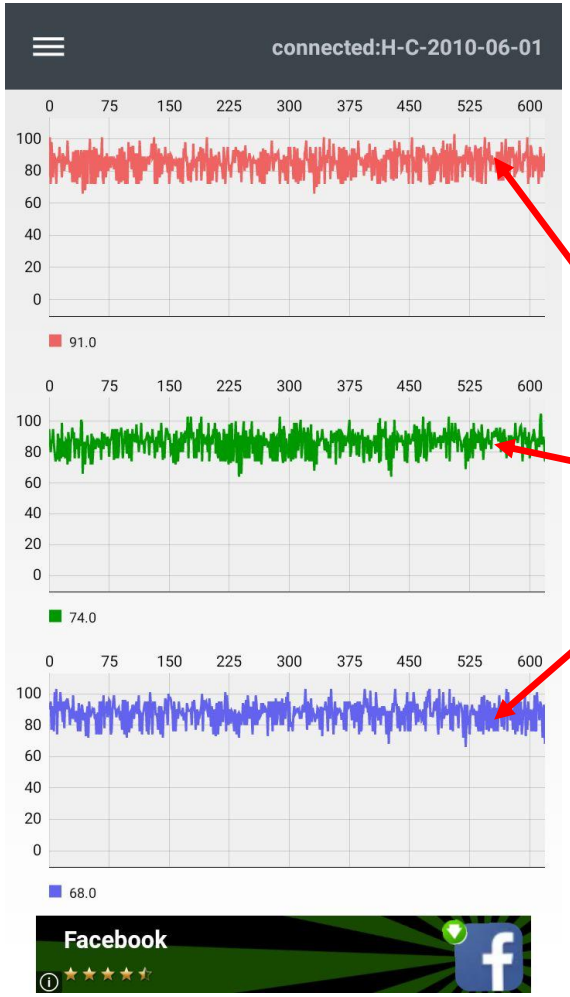


Fig. 3 Alpha Model



Data on Android App

Fig. 4 Android App Snapshot

Android App: https://play.google.com/store/apps/details?id=com.emrctn.BluetoothGraphics

Beta Model

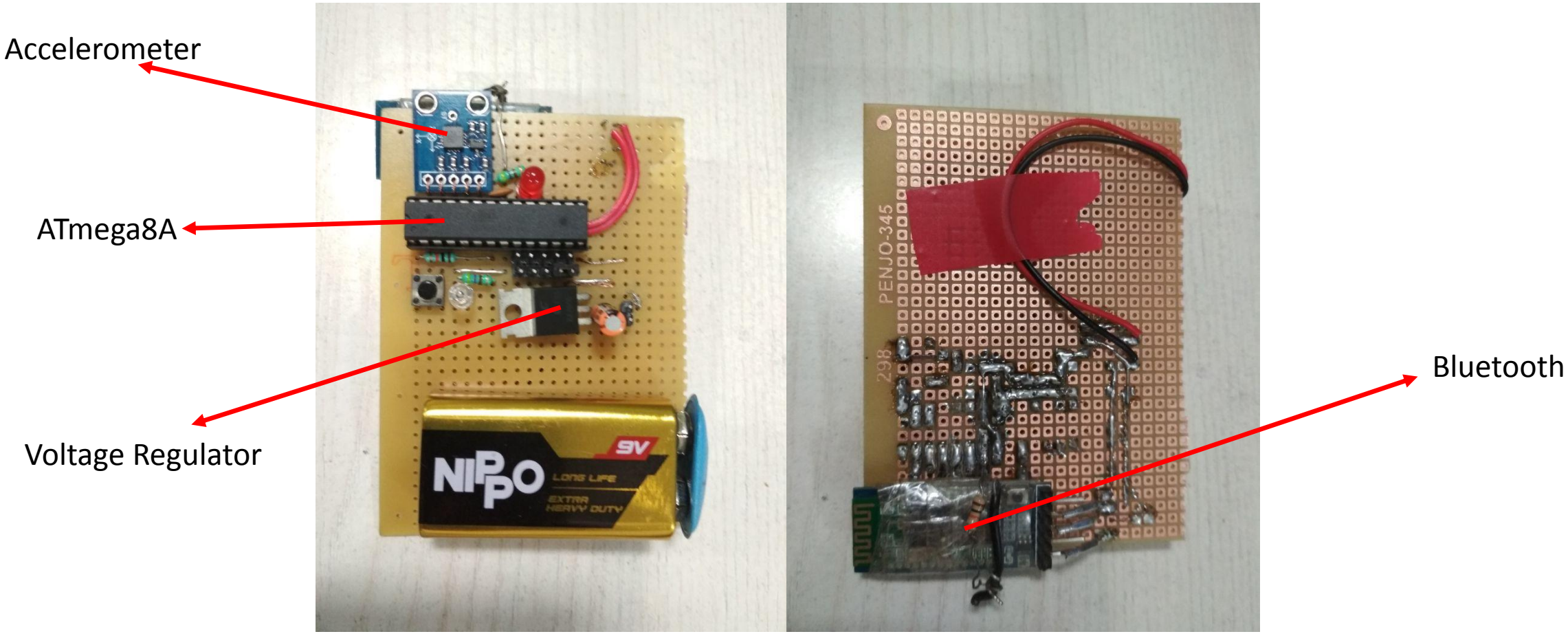


Fig. 5 Beta model front and back

Android App

- We have used Bluetooth Graphics app for logging data.
- App is available at : https://play.google.com/store/apps/details?id=com.emrctn.BluetoothGraphics

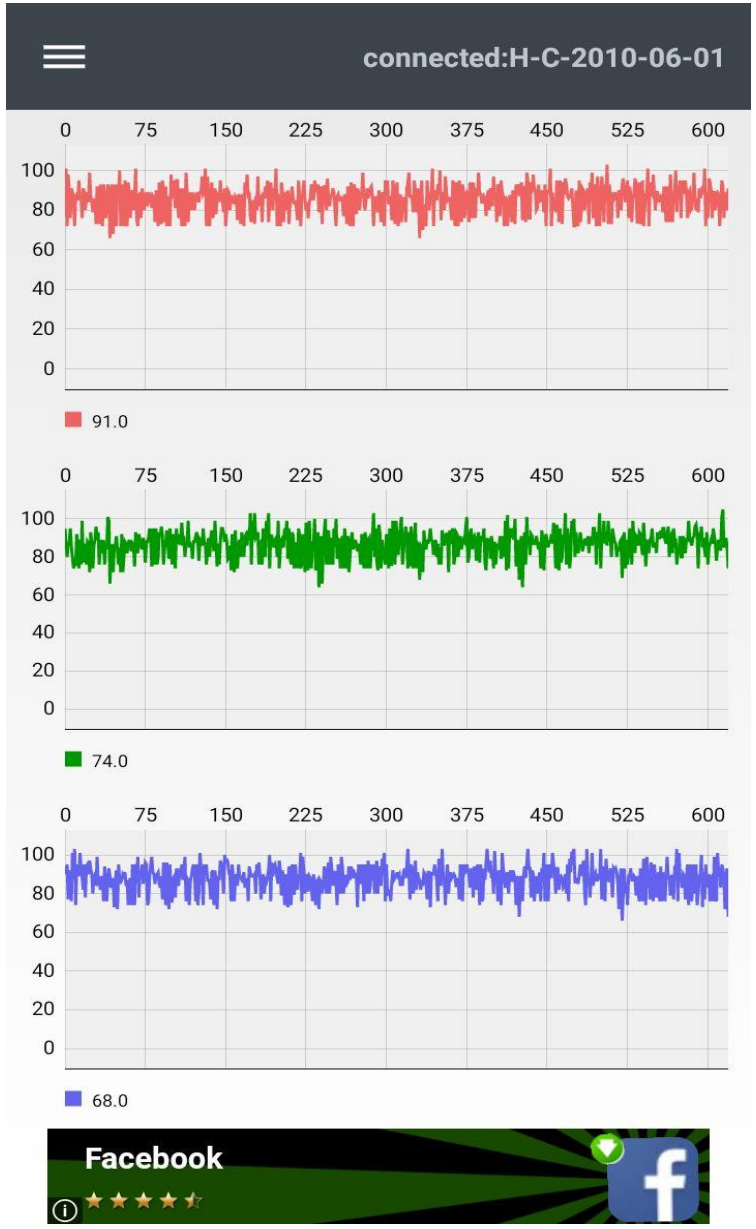


Fig. 6 Android App

Data Collection

System Mounted on Bicycle

Fig. 7

Data Collection

- Weight of rider: 77 Kg
- Tyre Pressure: 90 Units
- Distance traveled: 0.23Km
- Surface: Tar road
- Location: Masala Mix

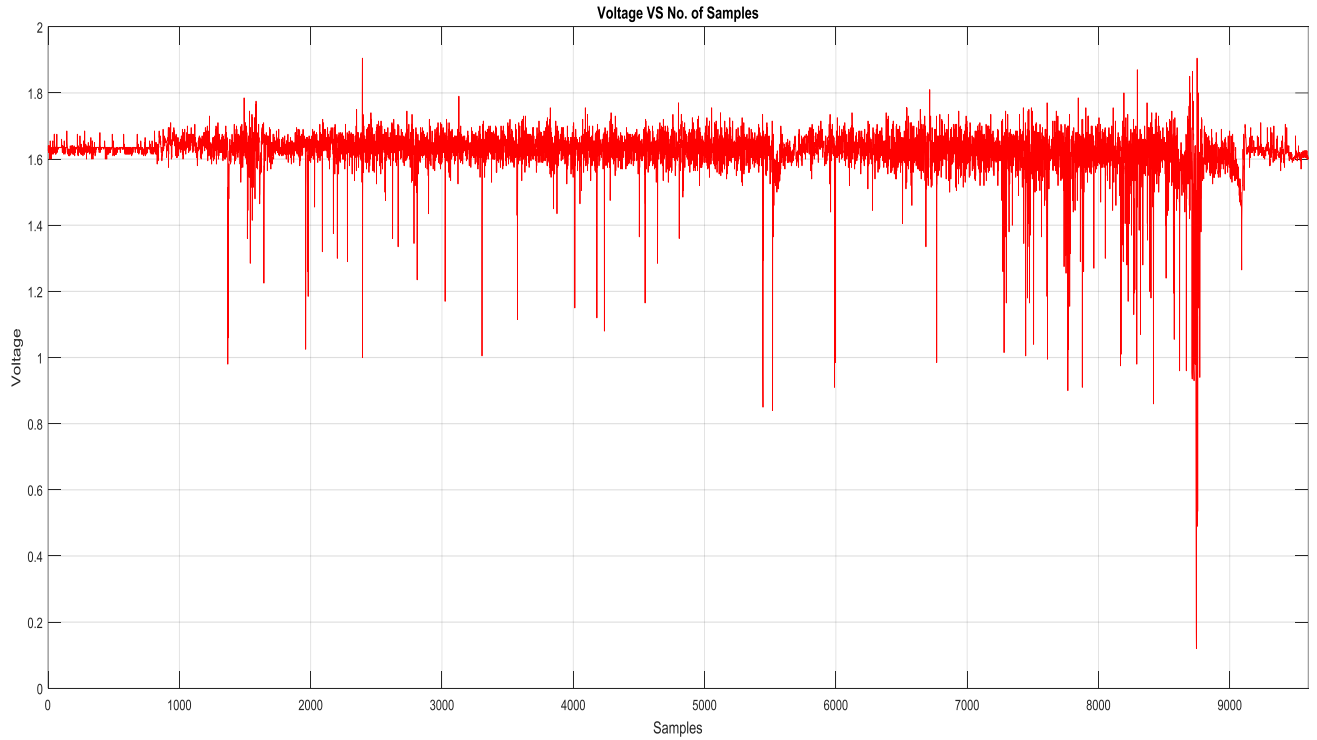


Fig. 8 Vibrations in Z directions

thank
you!