EMBEDDED LINUX REAL TIME PROJECT

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Project title	:	VIBRATION SENTRY

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Abstract:

Nowadays Accelerometer Plays an important role in understanding the position of the embedded device. The main goal of this project is to observe the position of embedded devices and measure the vibration.

Here we used ADXL345 accelerometer, an ultralow power high resolution device which is capable of measuring inclination changes less than 1.0°. Read the x-axis, y-axis and z-axis from the ADXL345 accelerometer via I2C protocol and display the information in a 16x2 LCD display.

Application of this project is numerous from wearable devices to Industrial instrumentation, which will be helpful to understand the position of orientation of the embedded device and act accordingly.

BLOCK DIAGRAM: