Guitar Tuner

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March 5, 2018

**Measurable Specifications**

* Use an LCD display to:
  + display the frequency 2 Hz
  + display note derived from frequency of guitar string being played
* Frequency measurement shall range from 75 Hz to 400 Hz 10%

The measured frequency will only be considered accurate when within 12 inches of the guitar sound hole while the device is in its calibrated orientation

* Power with battery
* Output digital value over a serial interface that is proportional to the sensed frequency. An unsigned sixteen bit number shall represent the frequency. An eight bit character shall represent the note being played