

ABSTRACT

Discussing the guitar is also inseparable from tuning the guitar strings. Of course, there are many people who can play the guitar, but can't tune the strings. So a microcontroller-based guitar tuner was made. This tool helps someone tuning the guitar strings. In this tool there are Arduino Uno, Op-Amp, Female Audio Jack, and LED Bar. Arduino Uno and Op-Amp as processors of running frequency when strings are picked. Female Audio Jack as input for Audio Jack cable from guitar to tool. And the LED Bar is an indicator of the frequency and tone of the strings being picked.

Keywords: Op-Amp, LED Bar, string tone, Arduino Uno