

IEEEDuino Student Contest 2024

Design Stage Feedback

Team: Arduscope



Comment 1:

This project has already been implemented years back. All source codes as well as schematics are available on the web.

Comment 2:

A useful and cheaper solution for electronics/electrical in academia.

Comment 3:

128x64 pixels may present some limitations for displaying detailed signals (waveforms). Metric ranges might be limited compared to dedicated oscilloscope. The Arduino Uno has limited ADC resolution (10 bits) and a relatively low sampling rate (up to ~10 kHz effectively), which makes it suitable only for low-frequency signals. High-precision measurements or high-frequency signals will not be possible.

Comment 4:

The idea is interesting; although, points such as zooming (in time) and limits of the screen have not been sufficiently discussed.