

Frank Martino - Proof of Skills Day 4

Q4 Proof of Skills Community, Communication, HELP

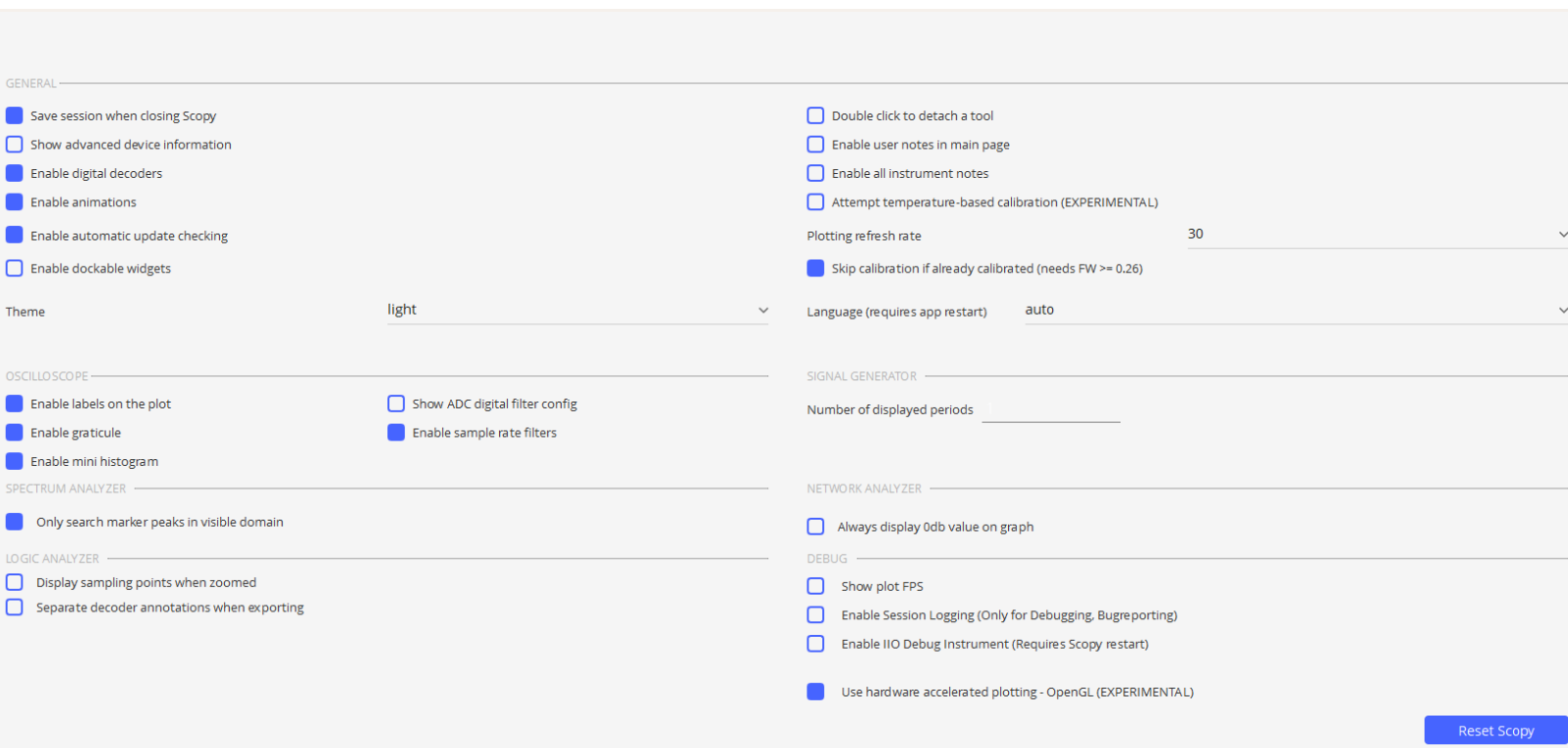
Prove your skill set using **ONE** of the following: **M1K board, Analog Discovery Board, or M2K board.**

Q4.2 Talk to each other!

I can **HELP** someone else **OR** ask another student for help after I have mastered a skill.

After using the ADALM2000 and Scopy for quite a while I helped another student, Philip Okafor, who had not yet used the software or hardware. Below are screenshots of settings I recommended such as changing the color of the Scopy windows and showing which tabs are used for creating signals.

Settings window:



The screenshot shows the Scopy settings window with various tabs and options. The 'GENERAL' tab is active, showing settings for session saving, device information, decoders, animations, update checking, and dockable widgets. The 'OSCILLOSCOPE' tab shows options for labels, graticule, and histogram. The 'SPECTRUM ANALYZER' tab has a search marker option. The 'LOGIC ANALYZER' tab has options for sampling points and decoder annotations. The 'SIGNAL GENERATOR' tab has a number of displayed periods. The 'NETWORK ANALYZER' tab has an option for 0db value. The 'DEBUG' tab has options for plot FPS, session logging, and IIO debug instrument. A 'Reset Scopy' button is visible in the bottom right corner.

GENERAL

- Save session when closing Scopy
- Show advanced device information
- Enable digital decoders
- Enable animations
- Enable automatic update checking
- Enable dockable widgets

Theme: light

- Double click to detach a tool
- Enable user notes in main page
- Enable all instrument notes
- Attempt temperature-based calibration (EXPERIMENTAL)

Plotting refresh rate: 30

- Skip calibration if already calibrated (needs FW >= 0.26)

Language (requires app restart): auto

OSCILLOSCOPE

- Enable labels on the plot
- Enable graticule
- Enable mini histogram
- Show ADC digital filter config
- Enable sample rate filters

SIGNAL GENERATOR

Number of displayed periods: _____

SPECTRUM ANALYZER

- Only search marker peaks in visible domain

NETWORK ANALYZER

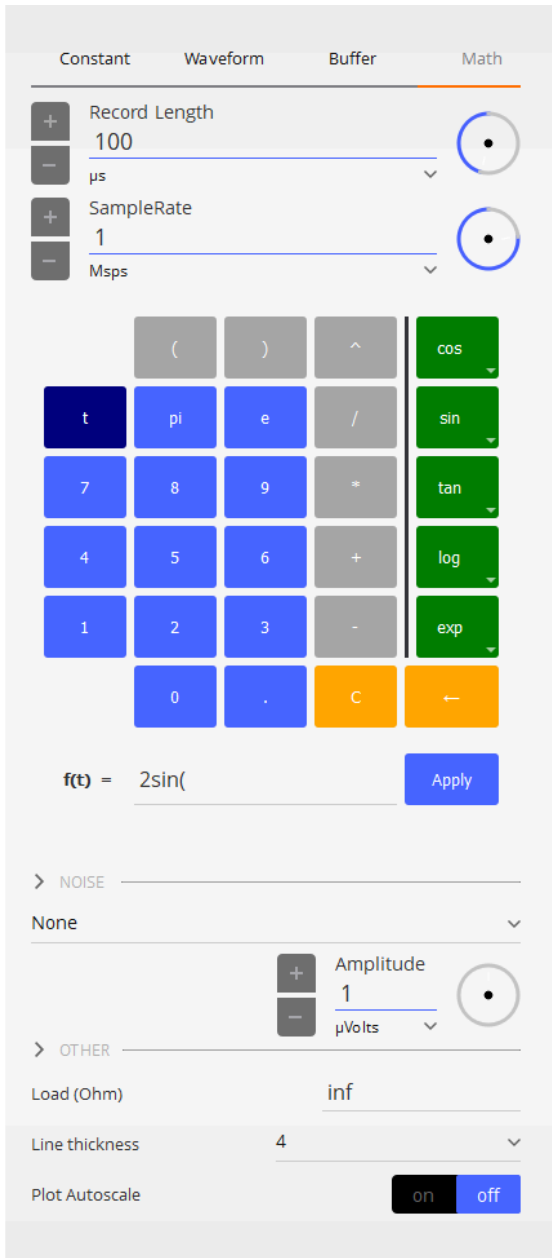
- Always display 0db value on graph

DEBUG

- Show plot FPS
- Enable Session Logging (Only for Debugging, Bugreporting)
- Enable IIO Debug Instrument (Requires Scopy restart)
- Use hardware accelerated plotting - OpenGL (EXPERIMENTAL)

Reset Scopy

Tab used to create waveforms or use the math function to create a different wave:



Constant Waveform Buffer **Math**

+ Record Length
100
- μs

+ SampleRate
1
- Msp/s

() ^ cos
t pi e / sin
7 8 9 = tan
4 5 6 + log
1 2 3 - exp
0 . C ←

f(t) = 2sin(Apply

> NOISE
None

+ Amplitude
1
- μVolts

> OTHER
Load (Ohm) inf

Line thickness 4

Plot Autoscale on off