

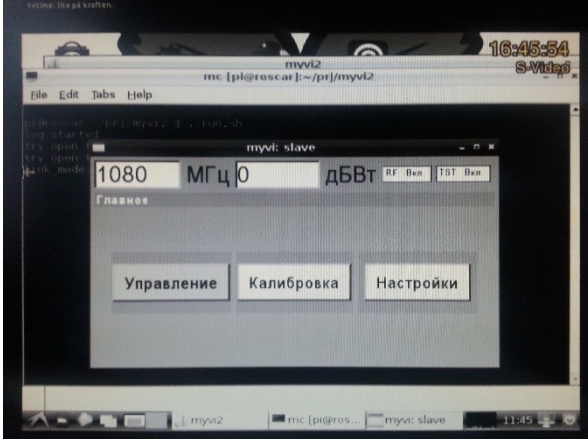
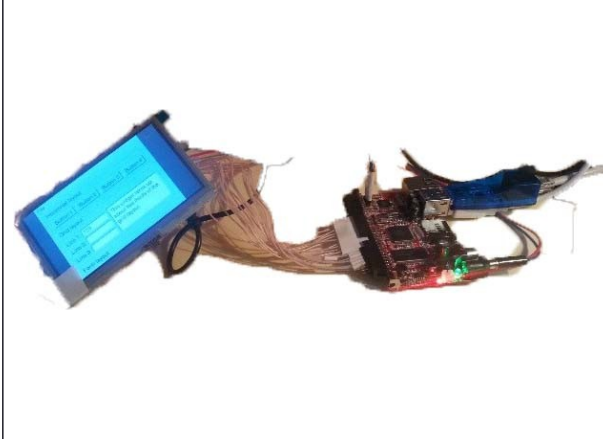


## UI interface for a portable device in area of avionics.

This was a main project that I developed while worked at RTS. The project was about developing user interface unit for a portable measuring device that would allow to measure properties of the telemetry radio signal from an aircraft.

Parts that I developed:

- Software for UI module using bare C++. This includes core routines, UI custom description language, versatile set of UI primitives. While implementing that several hardware platforms were examined including NIOS II, TI TMS320 DSP.
- Software for an Altera FPGA chip using Verilog language.
- As part of an extended project the software was successfully ported to embedded Linux environment, that involved adapting display driver to work with custom hardware interface. Also, the experience of building Linux system from scratch for embedded platform was obtained.

	
General view	Example of the UI
	
Running on Raspberry Pi	Embedded Linux system