

Open Source Spectrometer

(That's what we were calling this project, I think)

So where's the spectrometer?...

We have done most of the design/engineering work for both the optics and the electronics of a low-cost spectrometer.

We have spent the second half of the semester working on other open source projects...

Linux Computer.

- Not quite yet ready...PCB design still in progress
- Low cost, relatively powerful, etc...

LIB3 Headquarters!

(Is open source architecture a thing?)

LIB3 Inc. is currently working to renovate and retrofit an industrial building in Troy to launch a new PCB assembly service. We are building offices and a mostly-automated manufacturing floor.

LIB3 will be at Maker Faire NY this fall!



‘Open Hardware Designs and Agile PCBA’

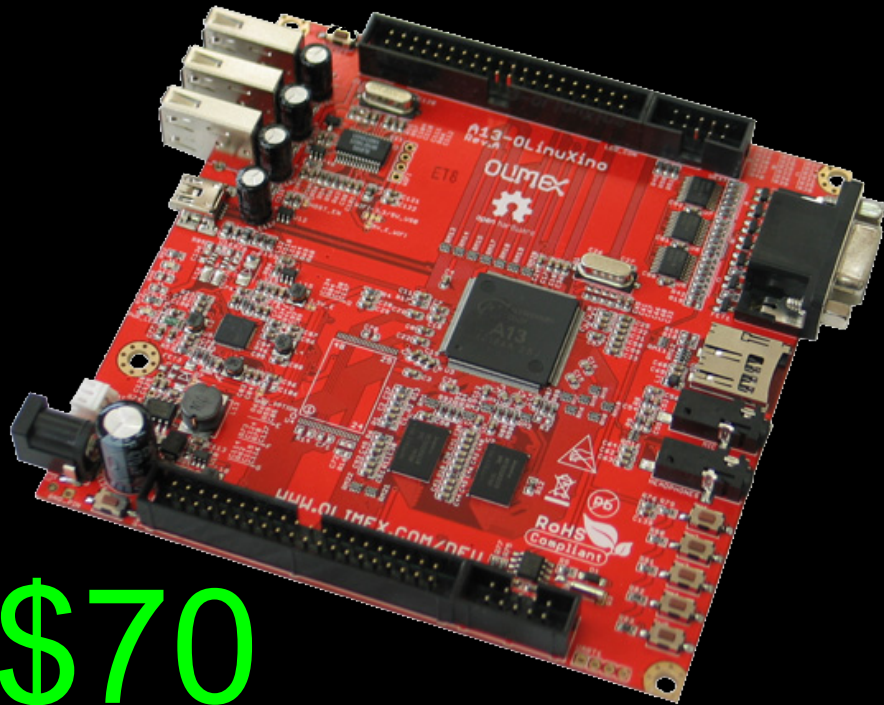
Embedd-GUI

Nick Guthrie

Original Objectives

The Embedded GUI Framework aims to be a “drop in” interface for embedded developers to rapidly incorporate touchscreens into projects.

Development Hardware & Costs



\$70



\$45



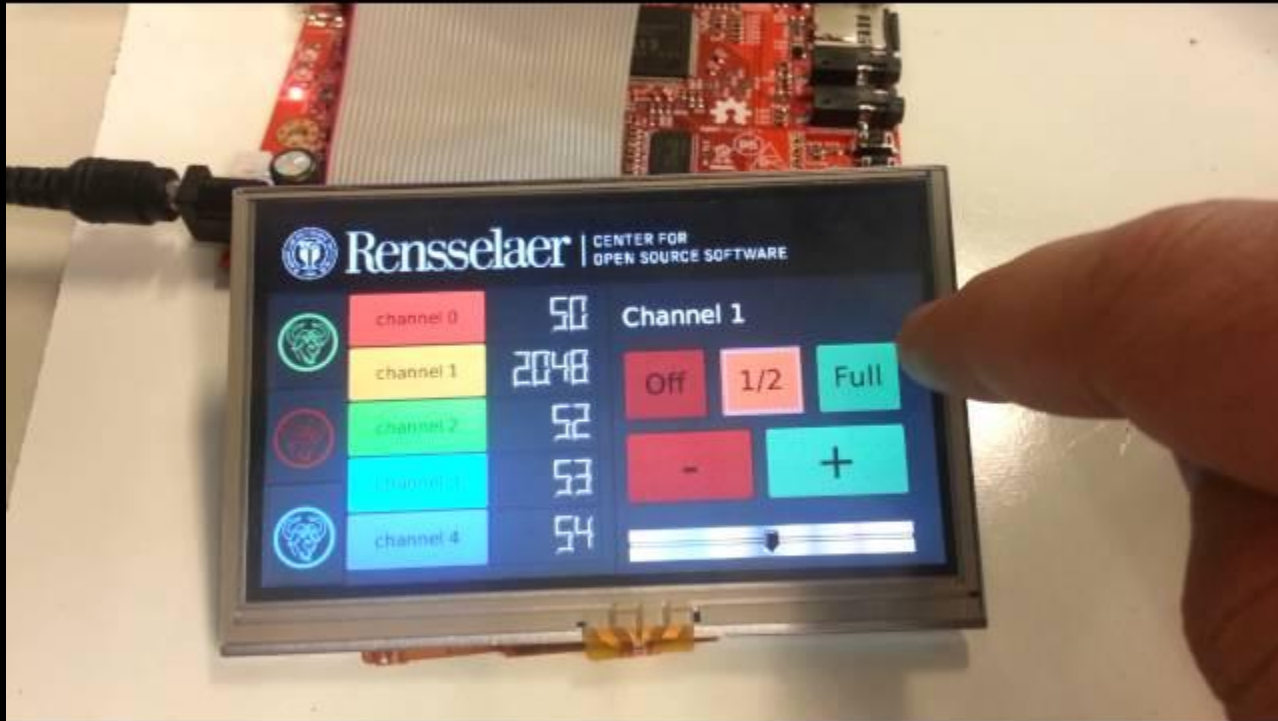
\$15

(\$130)

Objectives Accomplished

1. Debian Fully Functional
 - XFCE Graphical Desktop Functional (not installed)
2. Cross Compiling Toolchain Functional
3. **QT** Correctly Operating with **TSLIB**
4. Created Prototype Touchscreen Applications

RCOS Prototype GUI



Vital Vio “Light Switch”



Thanks to

Sean O' Sullivan

Prof. Moorthy

Prof. Goldschmidt

RCOS Members