Table of Contents

Linux on WRT54GL, Bembed, Webcams

September Meeting: Linux on WRT54GL, Bembed, Webcams

Date: September 4, 2007 at 7 p.m.
Location: Algonquin College (Woodroffe Campus), room T117

A Diamond In The RF (Linux on WRT54GL)

Speaker: Tyler Tidman

Find out how you can get started playing with ridiculously inexpensive, embedded Linux computers for fun and profit, save the world and leap over small buildings in a few (or more) bounds.

The Linksys/Cisco WRT54GL is a tiny, cheap, all-in-one home DSL/cable router/firewall/switch/wireless AP that can be purchased new for around CDN$80. What “they” don't advertise is the fact that you can do things with this device that previously were only possible with closed systems and by spending many hundreds or thousands of dollars–a pricetag that is often hard for a hobbyist or amateur to justify on their family expense report.

We will cover some history, overview, things you'll need to get started and provide some quick demos and show you how to do some simple but amazing things with free and open software and really affordable hardware.

About the Speaker

Tyler Tidman has been wireless since shortly after his birth and has been hacking his own internal firmware for over 30 years. In his spare time, he tries to install Linux on his wife and two cats.

Bembed

Speaker: Bryan Larsen

Bembed is a framework to accelerate embedded Linux software development. It allows developers to

easily add a featureful web interface to their product along with one or more clean APIs.

For more information, see http://bembed.org/

USB Webcam Support in the Linux Kernel

Speaker: Dmitriy Korovkin

An analysis of USB web camera support in the Linux kernel, existing frameworks and a look at the methods of writing your own web camera Linux driver. You may download the whole text here.

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Last update: **2018/03/24 16:01**