I ordered this kit in Amazon in early 2011 and the delivery lasted for almost two months. But the product was worth waiting. Especially if you are tired of soldering chips and would like to have something vivid with that you could experiment and just have a little fun.

Yeah, this kit is mostly a toy that you have to assemble at first. It took me about 3 hours. So, as a compensation for the efforts you’ll get a plastic robotic arm and a joystick. All the stuff is supplied with batteries.

The only problem was that there was no any special board to control the arm from a pc or a smartphone. For that moment I found only stereotype wired solutions on the net and decided to create my own wireless variant.

So, as a base, I took HopeRF modules (transmitter and receiver), FTDI FT232R as the simplest way to send a command from a pc, several L293d drivers to move the arm’s motors, DC converters and two Atmel microcontrollers to control it all.

As a result, I had two boards: one that was connected to pc and another integrated with the kit and powered with the arm's batteries.

Then I wrote a very simple program to send a specific command according to self-created protocol to move the arm. There you can also adjust arm’s sensitivity and record a script to repeat a command set, for example.

The simple demonstration on the video below:

If you want to create a replica of my little project then all the sources, PCB layouts and firmware are available on github, as usual.