

Objective: The project basically aims at developing a cape and a board (name it “Burner”). The burner would be able to program various microcontrollers (various AVR MCUs like Atmeg16 etc , various PIC MCUs and 8051 MCUs) either through SPI or parallel programming, whatever required. It would also be able to check if a MCU and other logic IC are in working condition or not.

Also the cape would be having multimeter capabilities . Incorporating the logic analyser (beagleLogic) together with all this will make it more awesome. There would be a Bluetooth on the cape so as to remain connected to the PC and Android mobile. The cape will also have motor drives, to drive a CNC machine (really simple to build) that would work as a printer (and could print on anything, can be used for PCB making). And a 3.5mm jack to play songs from the microSD-card (that’s really important). Also there would be some simple Speech recognition with simple commands like making note (audio note etc.)

Software Part: Well, all these functionalities need software but the most significant part is where we will have to burn code onto MCU (the Burner) and driving that CNC machine (printer, as the timings need to be perfect).

To the community: I believe that having great tools is what every willing developer deserves, but in countries like mine it’s quite difficult to find correct tools (at least I faced lots of problems when I started doing things and I don’t want others to face the same). What does software Developers needs?(No offense) Just an internet

connection and a Laptop. But for Embedded? Let's count, an Arduino (\$ 28 approx.), a Pickit2 (\$33 approx.) and many other devices to make them work. So I just wish to provide much better tools to the developers at reasonable price (and completely open source).