VIPER, the Esperanto for the Internet of Things

A few days VIPER (**Viper Is Python Embedded in Realtime**) was presented on Kickstarter. It is running well and most of the backers are programmers, IOT experts, Python enthusiasts.

What is the target for VIPER?

The target: someone (programmers, makers, pro-ams but also designers and artists 3.0) who wants to develop or prototype something fast and in a simple and reusable way.
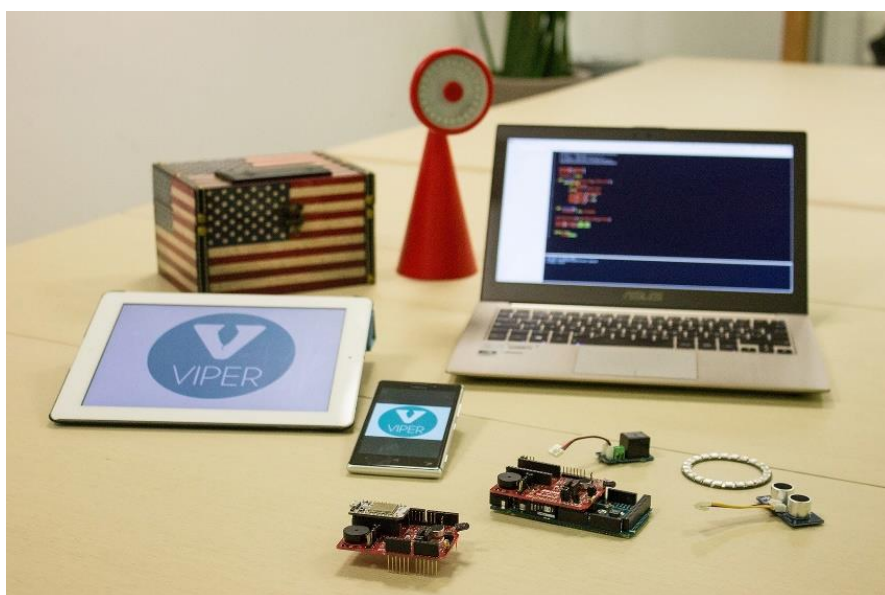They have something in common:

> They want to have parallel processes simultaneously running in their devices
> They want to write in a high level language
> They want to reuse the code they wrote in the past also when they decide to change the hardware.

Those are the reasons that pushed us to develop VIPER: a software suit that helps makers and pro-Ams, but also professionals in managing multithreaded processes, in high level programming in Python3, and the code can be reused on many different boards (ArduinoDue, SparkPhoton, SparkCore, ST Nucleo, UDOO).

You defined VIPER as "Viper Is Python Embedded in Realtime"? Is it really real-time?

Real time is the holy grail of many customers. They ask for real time but often they do need it, they need fast execution. But the "speed" depends on the behaviour they want to achieve and on the clock of the microprocessor too!

Often in the past our customers asked us for a "Real-time" product, but when we analysed the technical specifications we discovered that there was no need of a real time system (as we define it in the embedded world). Sometimes Real-Time is necessary (automotive, aerospace, etc..) but often it is a myth not a real necessity.

With the warranty of execution within few microseconds (50ms) you can do 99% of applications: household appliances, designers' objects, artistic installations, makers' prototypes and at least 80% of industrial applications in production and manufacturing

The campaign is running well. Are you happy?

Most of the backers are programmers, IOT experts, Python enthusiasts. They are very smart, curious, and very skilled. We are getting emails from everywhere: many are asking technical details, many want a new pledge with an early access to VIPER, others want we integrate the new exciting Spark Electron. We are trying to do our best to satisfy the new requests and desires with additional and totally new pledges. New updates at http://bit.ly/kickviper

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