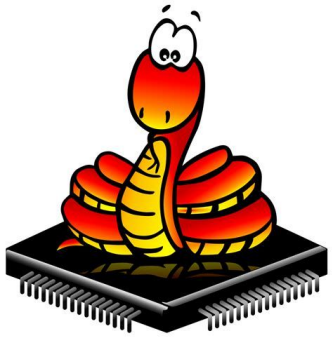
Ejecutando ROS y MicroPython

ROS

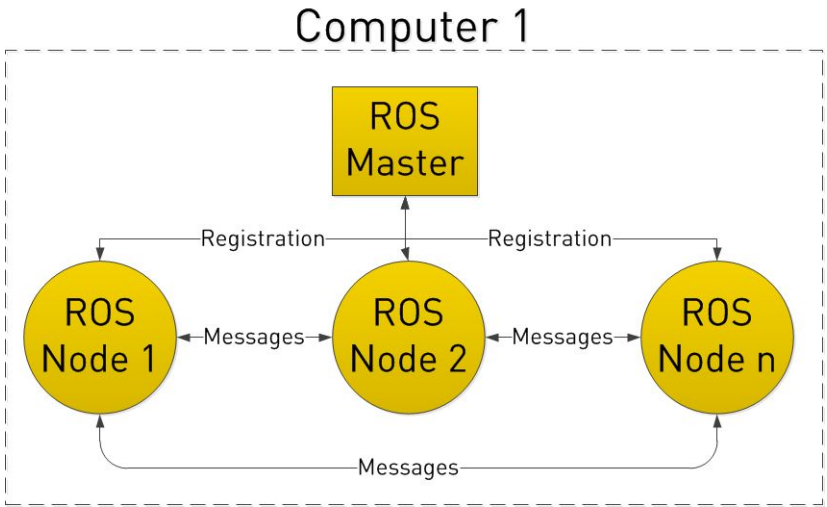
+

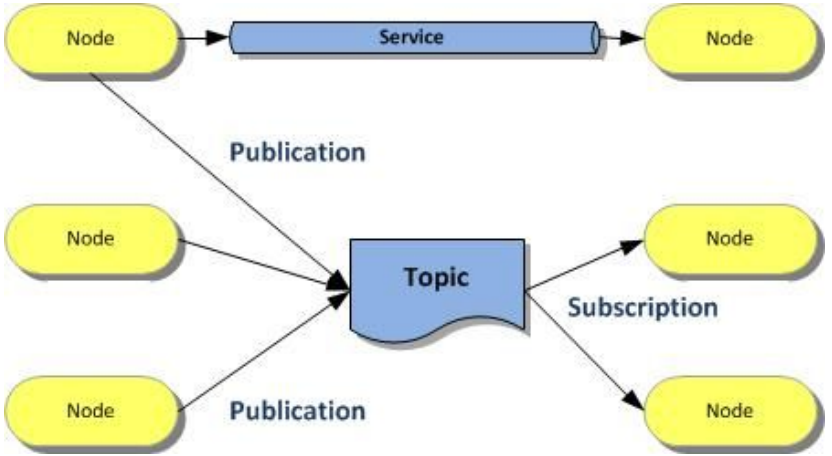
Por: Steven Silva
Co-Fundador de FunPython

FPY
Fun Python

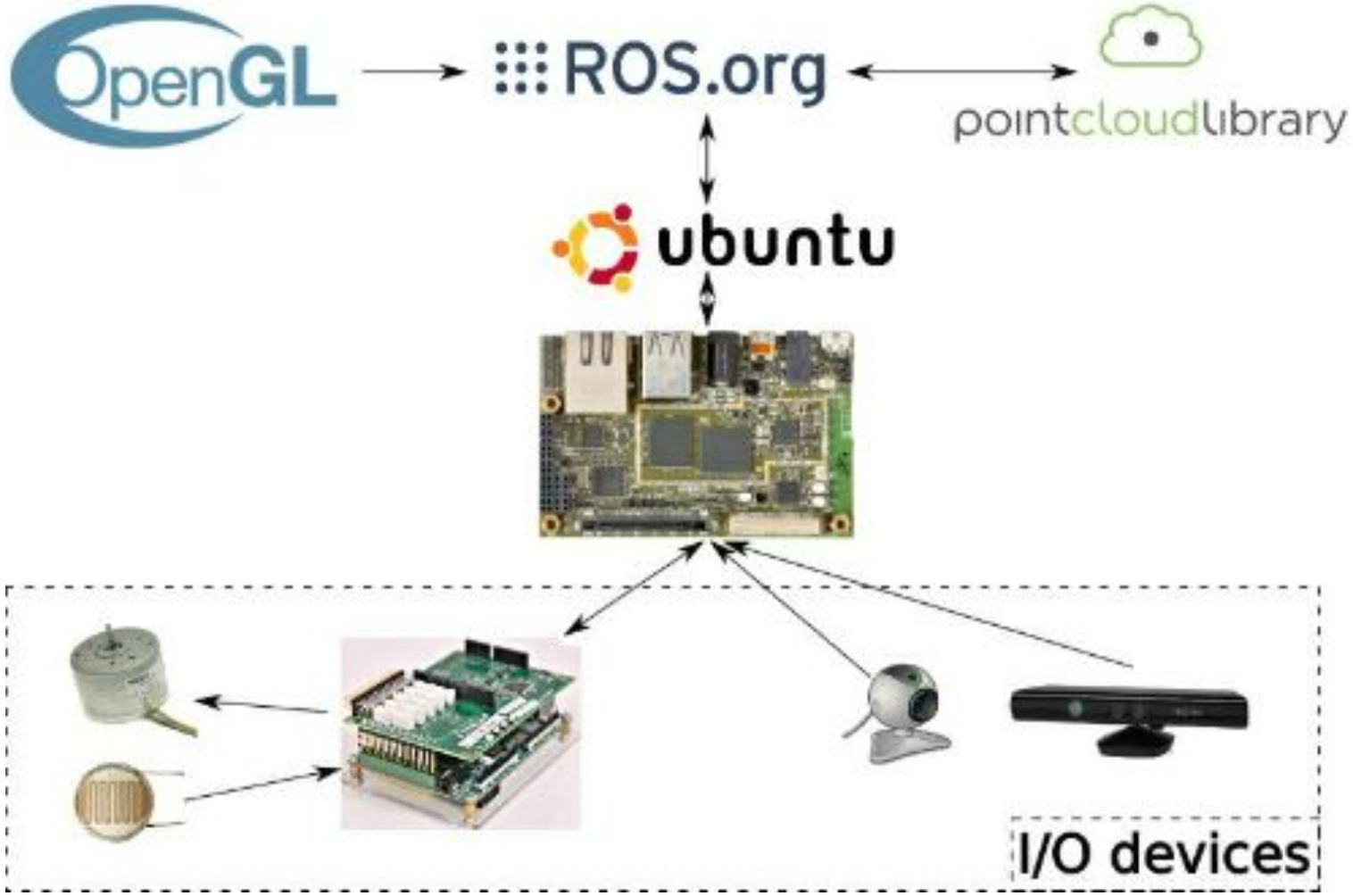


¿Qué es ROS?


Computer 1
ROS Master
Registration
Registration
ROS Node 1
Messages
ROS Node 2
Messages
ROS Node n
Messages


Node
Service
Node
Publication
Node
Topic
Node
Subscription
Node
Publication
Node

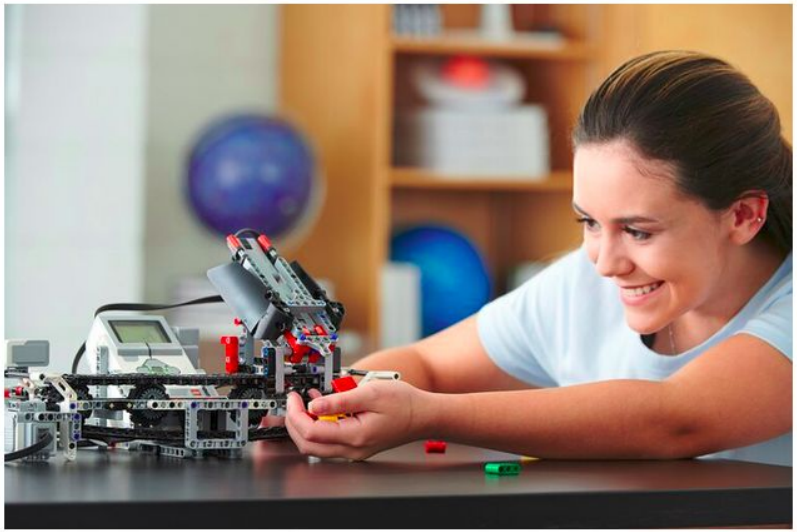
¿Por qué el uso de un microcontrolador?


OpenGL
ROS.org
pointcloudlibrary
ubuntu
I/O devices

¿Y por qué MicroPython?

Python for EV3

LEGO® MINDSTORMS® Education EV3



Program in Python with EV3

You can now use your EV3 Brick to unleash the power of Python programming using MicroPython. Simply install the EV3 MicroPython image onto any micro SD card and boot up your EV3 Brick from it to start programming straight away. Switching back to the standard LEGO® MINDSTORMS® EV3 firmware is just as simple. We have also provided full documentation and sample API code to get you started.

How to get started

1. Download and flash the EV3 MicroPython image onto a micro SD card
2. Insert your micro SD card into the SD card slot on the EV3 Brick and turn it on
3. Download, install, and launch the free Visual Studio Code editor on your computer
4. Install and activate the LEGO Education EV3 extension
5. Connect the EV3 Brick to your computer and start to code

You will find a detailed description of the above steps in the EV3 MicroPython documentation PDF (link below).

Minimum specifications

Micro SDHC (min. 4GB, max. 32GB) with Application Performance Class A1.
Windows 10 or Mac OS computer.
Visual Studio Code version 1.31 or above.

Links to documentation and firmware

⌂ Download the EV3 MicroPython documentation (incl. API, sample code).

⌂ Download the EV3 MicroPython micro SD card image

Robotic Arm

by **chrisgp** » Tue Sep 27, 2016 2:50 am

I 3D printed a robotic arm and used MicroPython on an ESP8266 to program some movement sequences.

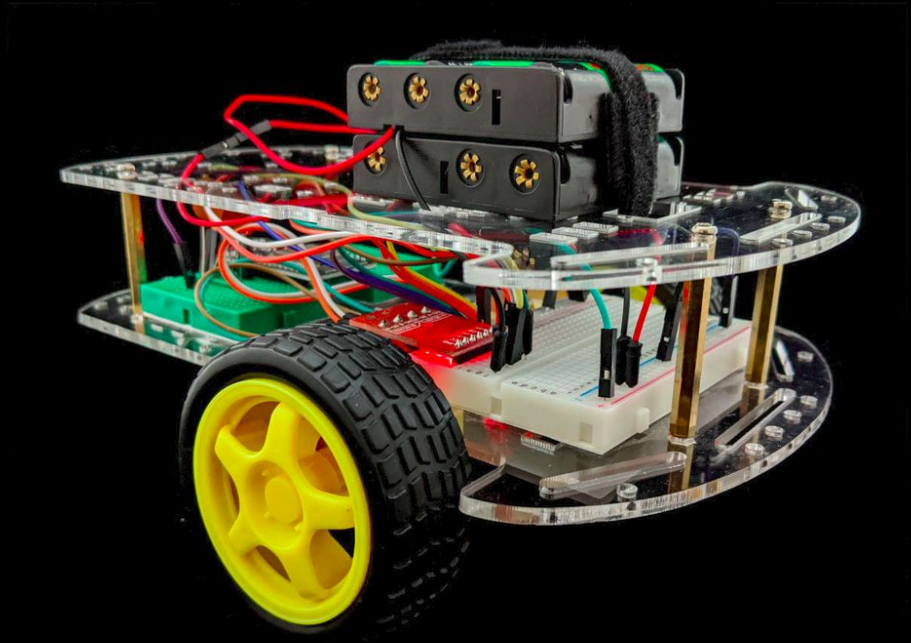
Check out a short video here and the source (there's not much to it at this point).

arm.png (84.31 KiB) Viewed 2061 times

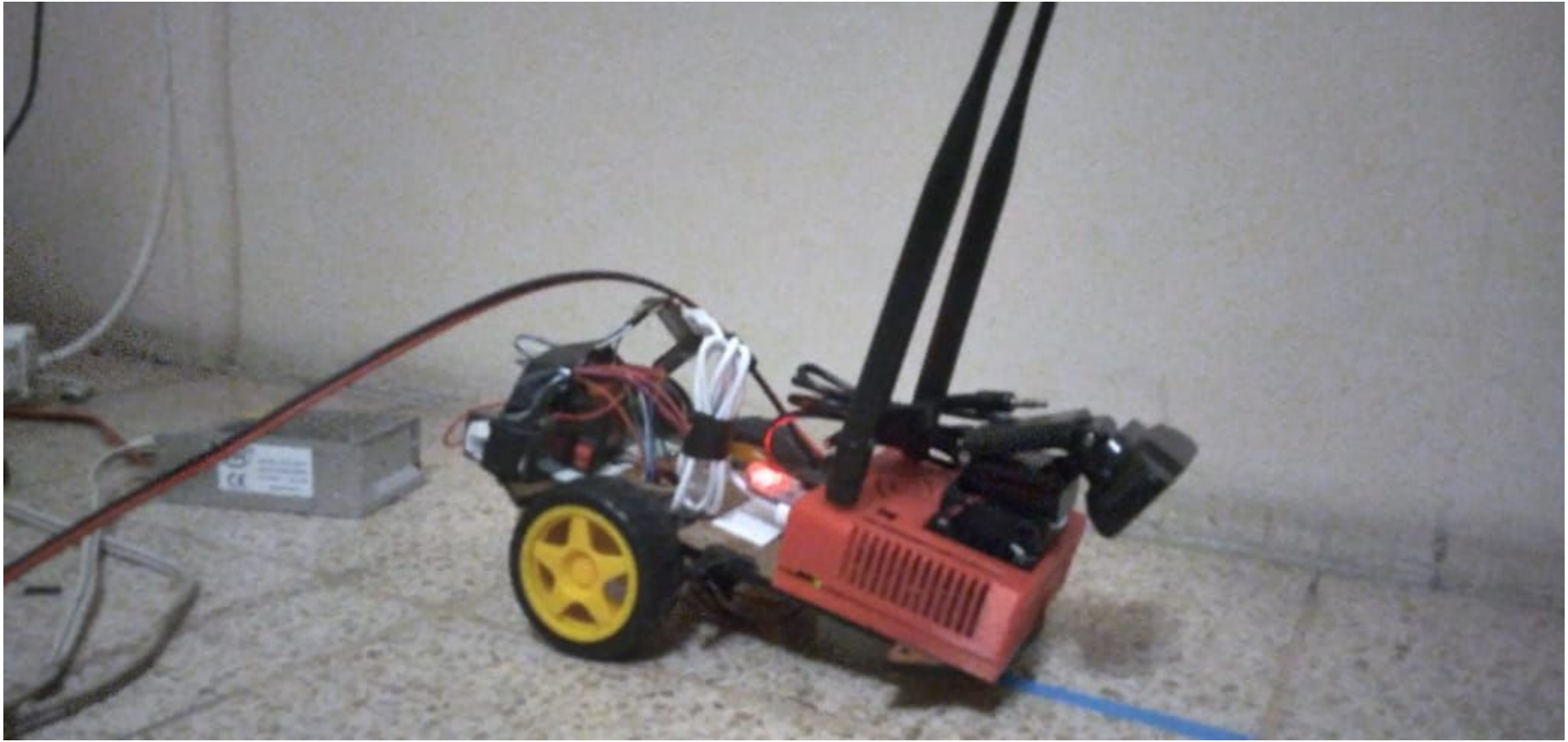
Hadabot

Blog Build Cart Purchase Hadabot Kit

Purchase a Hadabot ROS 2 Robot Kit



Aplicación de ROS y uPy



CONTACTO

GitHub: https://github.com/FunPythonEC
Correo: sasilva1998@gmail.com