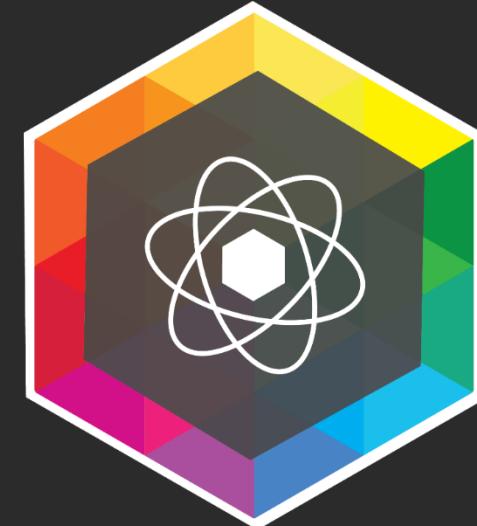




w ROBOTYCE

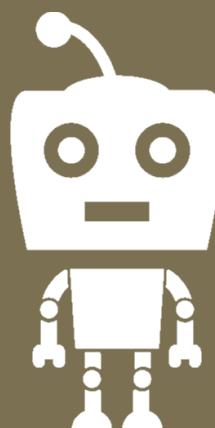


PHOTON



MARCIN JOKA

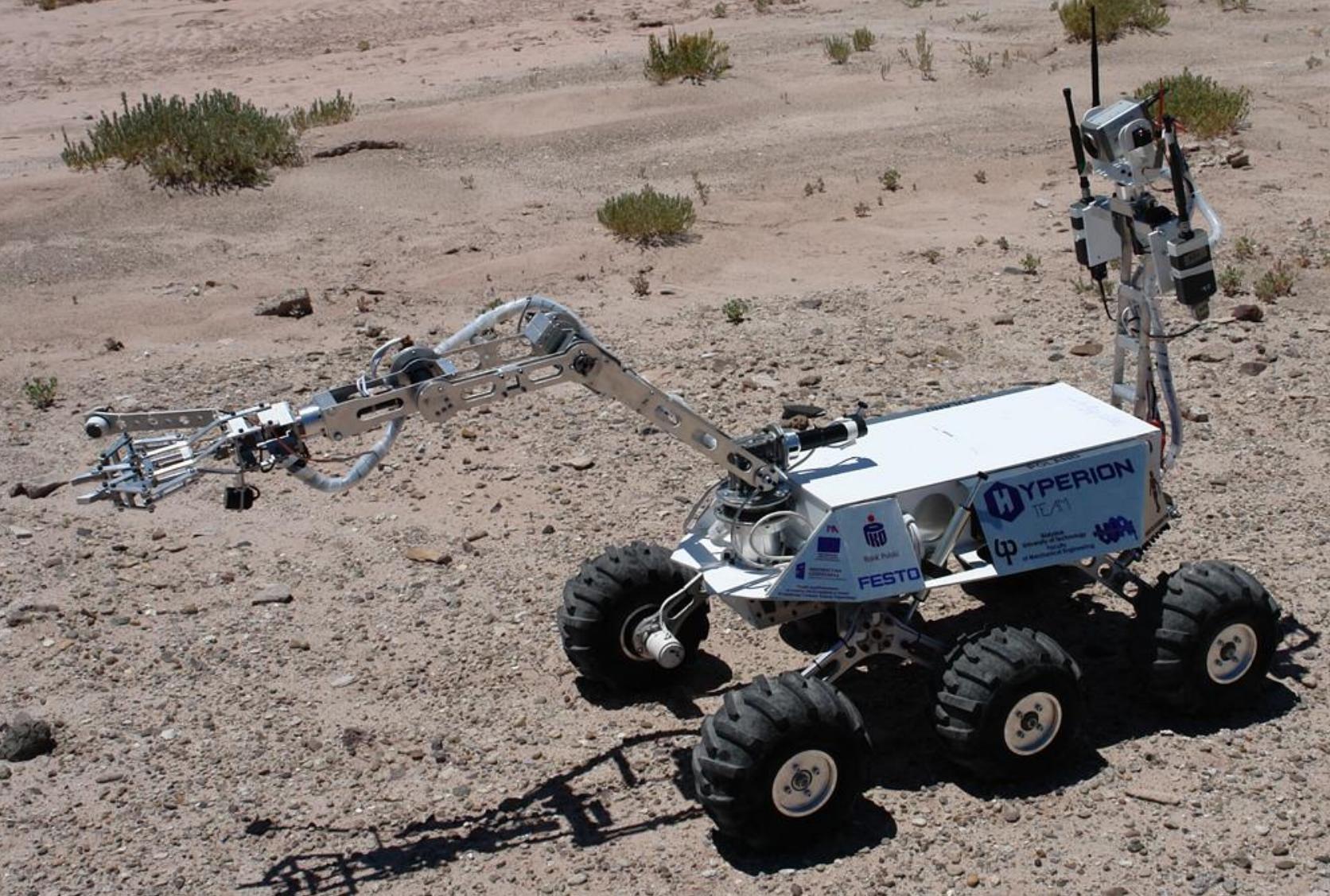
marcin.joka@gmail.com





W ROBOTYCE

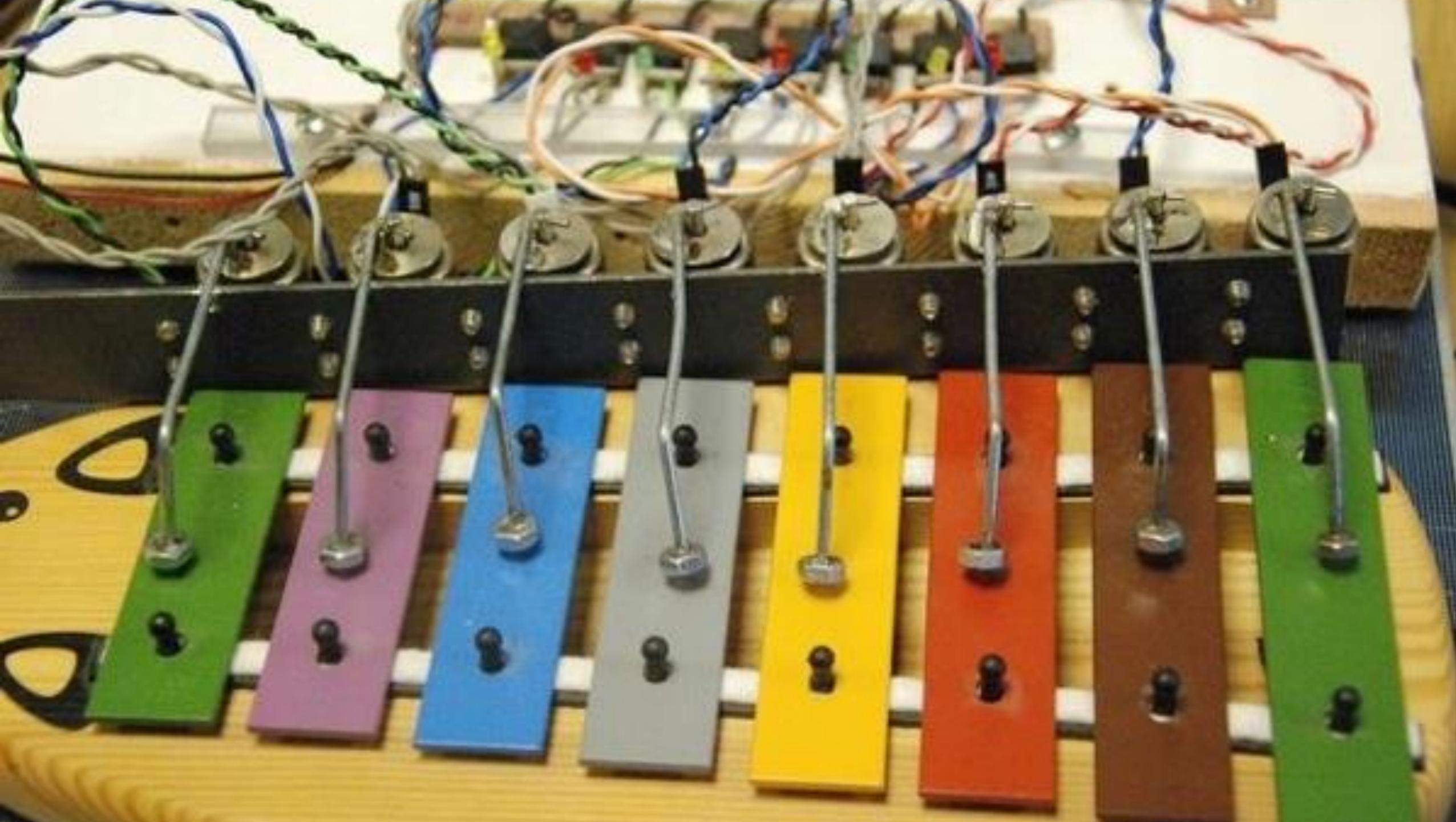








IT IS A TEN HALF
QUARTER TWENTY
FIVE MINUTES
PAST TO ONE TWO
THREE FOUR FIVE
SIX SEVEN EIGHT
NINE TENELEVEN
TWELVE OCLOCK



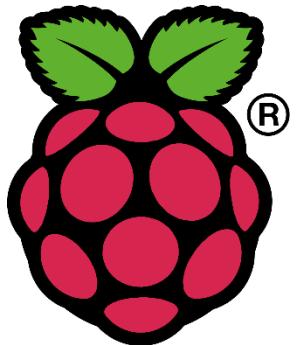
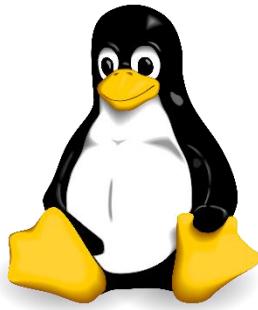
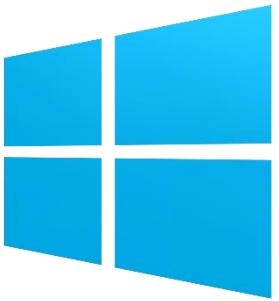


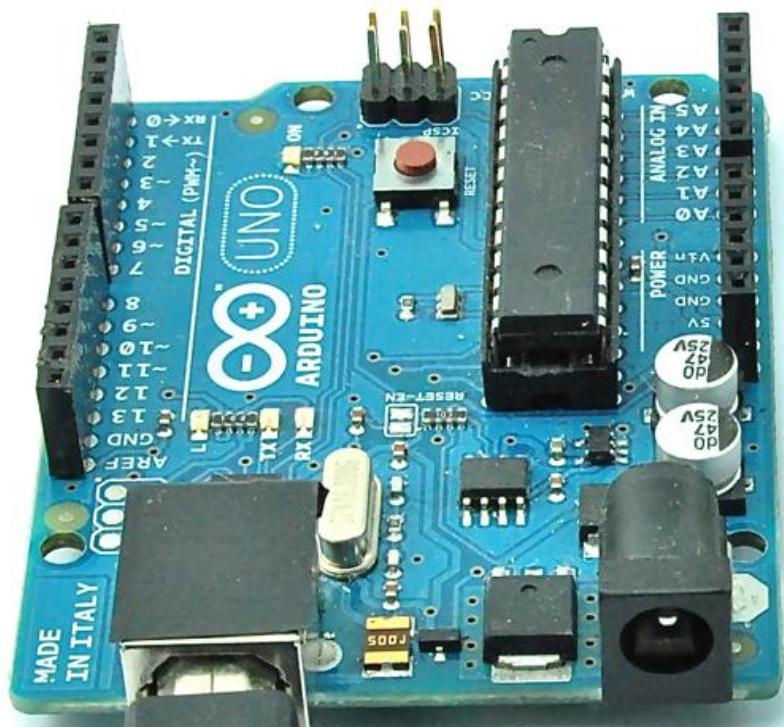
Co robimy na PB?



 ROS

Open Source Robotics Foundation





usbexplorer.py (~/Dropbox/Coding/IDLE/usb-explorer) - gedit

pyandroidaccessory.py x usbexplorer.py x

```

#!/usr/bin/python
# 1. analyse connected USB devices
# 2. listen to new connection
# 3. on quit, list currently connected devices

import usb.core
import urllib

URL_LINUXUSB_VID_PID = 'http://www.linux-usb.org/usb.ids'
FILENAME_VID_PID = 'usb_description'

def load_vid_pid():
    try:
        ufile = urllib.urlopen(URL_LINUXUSB_VID_PID)
    except URLError:
        print('Can\'t open linux-usb.org URL')

    for line in ufile.readlines():
        print line,
    return

def describe_ep(lep):
    print('\t\t' + 'End point: 0x%0.4x - attributes: %s'
          % (lep.bEndpointAddress, lep.bmAttributes))

    return

def describe_intf(lintf):
    print('\t' + 'Interface: %i - alternative setting: %i - class %s'
          % (lintf.bInterfaceNumber,
             lintf.bAlternateSetting, hex(lintf.bInterfaceClass)))
    for ep in lintf:
        describe_ep(ep)

    return

def describe_dev(ldev):
    Python ▾ Tab Width: 8 ▾ Ln 14, Col 53 INS

```

arnaud@hercules: ~/Dropbox/Coding/IDLE/usb-explorer

arnaud@hercules: ~/Dropbox/Coding/IDLE/us... x arnaud@hercules: ~/Documents/android-stu... x

```

Interface: 6 - alternative setting: 0 - class 0x2
    End point: 0x0086 - attributes: 3
Interface: 7 - alternative setting: 0 - class 0xa
Interface: 7 - alternative setting: 1 - class 0xa
    End point: 0x0005 - attributes: 2
    End point: 0x0085 - attributes: 2
Interface: 8 - alternative setting: 0 - class 0x2
    End point: 0x0087 - attributes: 3
Interface: 9 - alternative setting: 0 - class 0x2
    End point: 0x0084 - attributes: 3
Interface: 10 - alternative setting: 0 - class 0xa
    End point: 0x0003 - attributes: 2
    End point: 0x0083 - attributes: 2
Configuration: 2
    Interface: 0 - alternative setting: 0 - class 0x2
    Interface: 1 - alternative setting: 0 - class 0x2
        End point: 0x008a - attributes: 3
    Interface: 2 - alternative setting: 0 - class 0xa
        End point: 0x0001 - attributes: 2
        End point: 0x0081 - attributes: 2
    Interface: 3 - alternative setting: 0 - class 0x2
        End point: 0x0089 - attributes: 3
    Interface: 4 - alternative setting: 0 - class 0xa
        End point: 0x0002 - attributes: 2
        End point: 0x0082 - attributes: 2
    Interface: 5 - alternative setting: 0 - class 0x2
        End point: 0x0088 - attributes: 3
    Interface: 6 - alternative setting: 0 - class 0x2
        End point: 0x0086 - attributes: 3
    Interface: 7 - alternative setting: 0 - class 0xa
    Interface: 7 - alternative setting: 1 - class 0xa
        End point: 0x0005 - attributes: 2
        End point: 0x0085 - attributes: 2
    Interface: 8 - alternative setting: 0 - class 0x2
        End point: 0x0087 - attributes: 3
Configuration: 3
    Interface: 0 - alternative setting: 0 - class 0x8
        End point: 0x0005 - attributes: 2
        End point: 0x0085 - attributes: 2
arnaud@hercules:~/Dropbox/Coding/IDLE/usb-explorer$ 

```

Python w robotyce:

- Przyspiesza,
- Upraszczza,
- Kod jest czytelny,
- Pozwala na szybkie prototypowanie,
- Szybko można zidentyfikować gdzie jest błąd !!!



technika i kultura

Raspberry Pi Przewodnik dla programistów Pythona

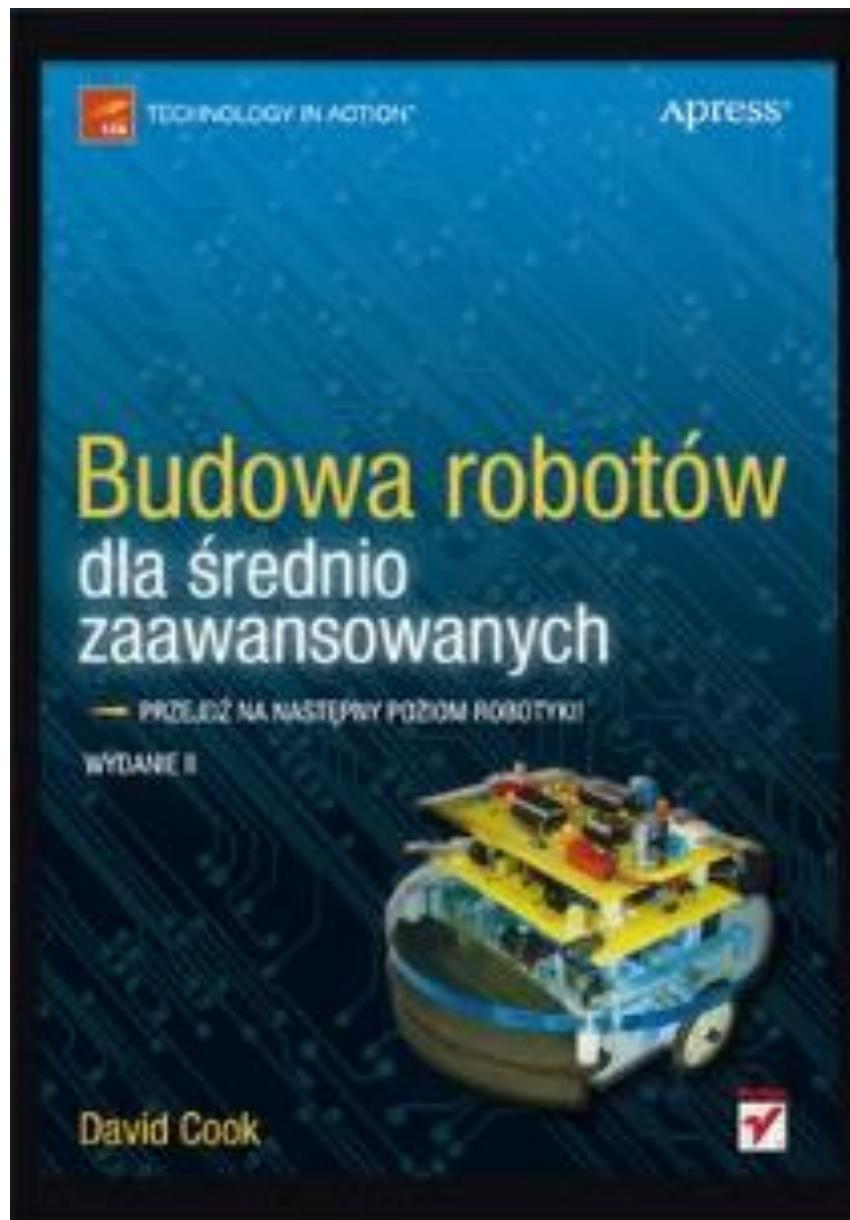
Zaprogramuj i rozwijaj własne projekty!

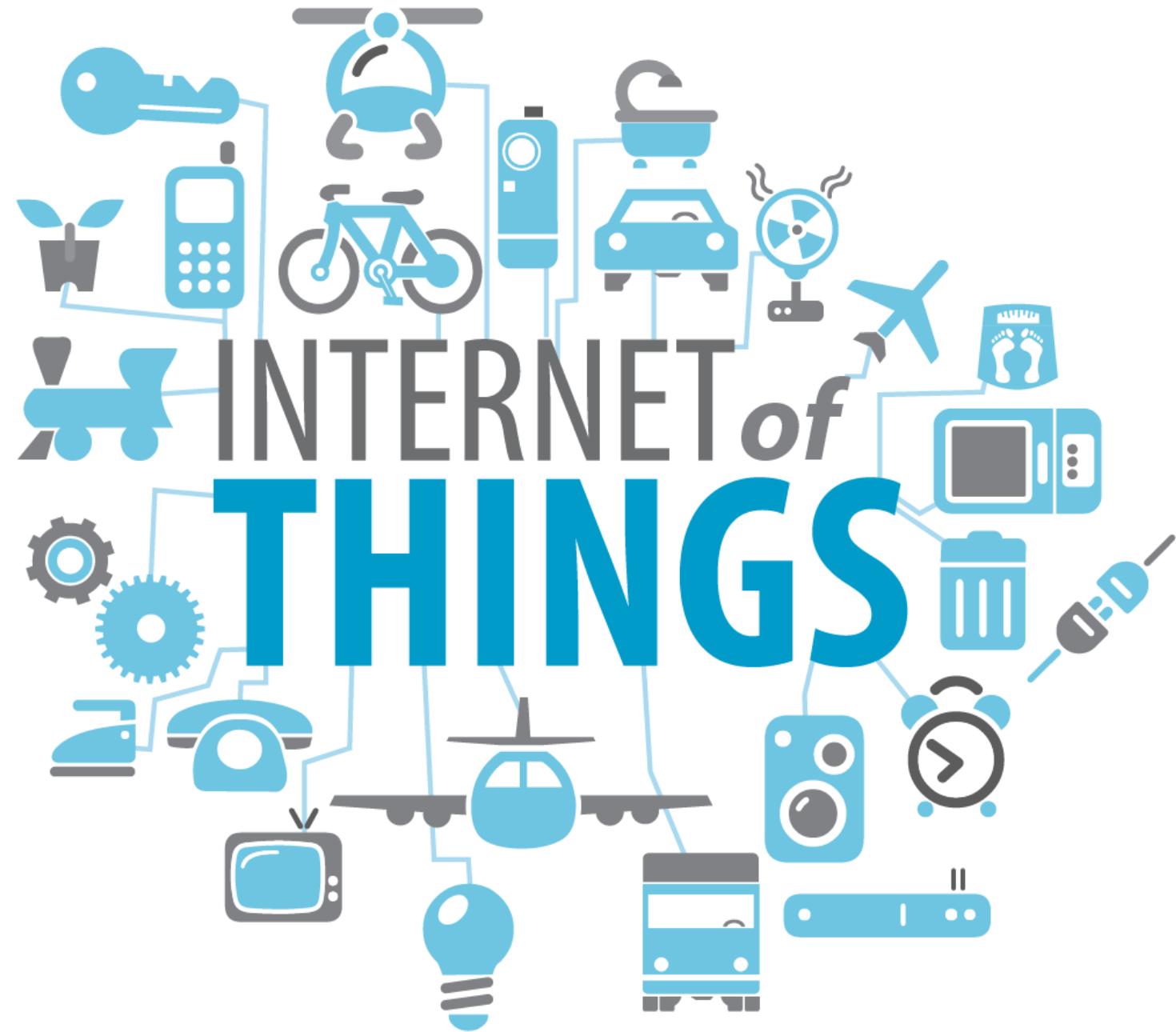


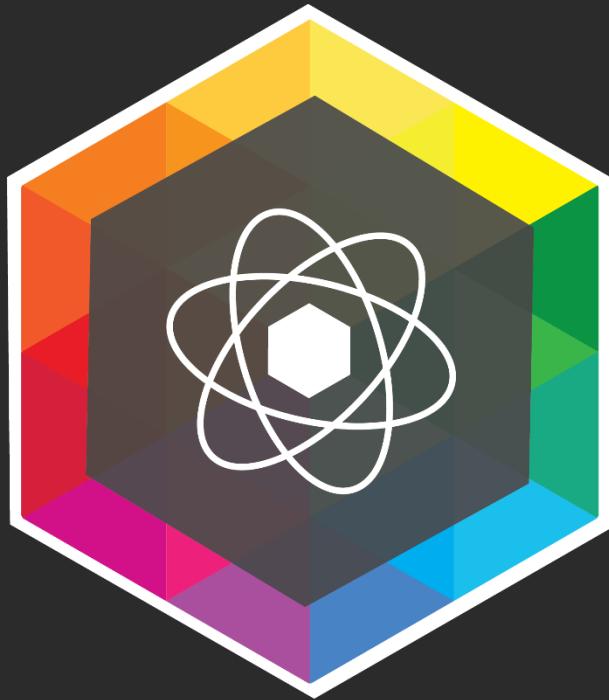
Simon Monk



Wydawnictwo Helion







PHOTON

**“ THE BEST WAY TO
PREDICT THE FUTURE
IS TO CREATE IT. ”**

— PETER DRUCKER

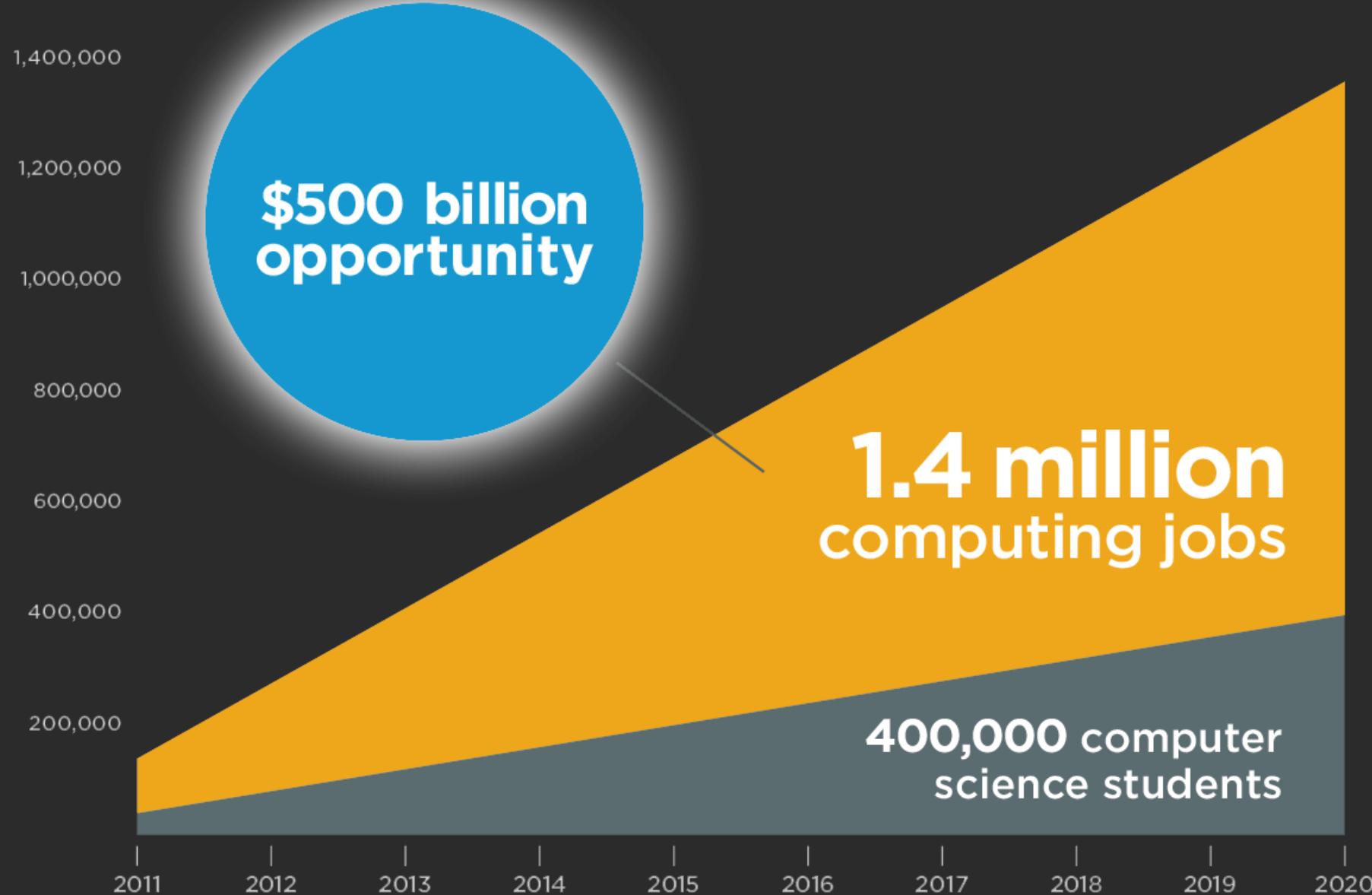








1,000,000 more jobs than students by 2020







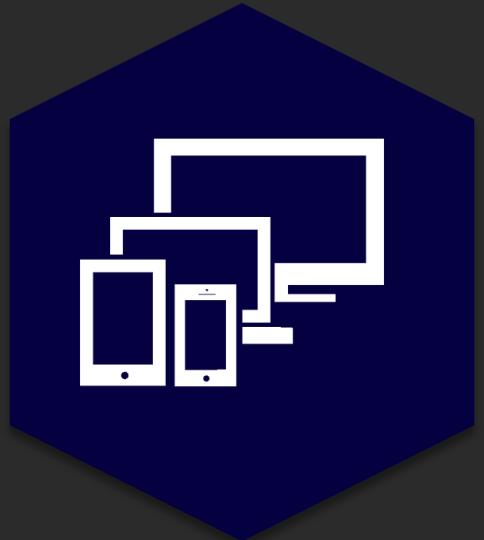
KREATYWNA EDUKACJA



SPOŁECZNOŚĆ



ROZRYWKA



MULTIPLATFORMOWOŚĆ



GRYWALIZACJA



ROZWÓJ





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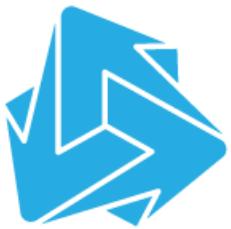
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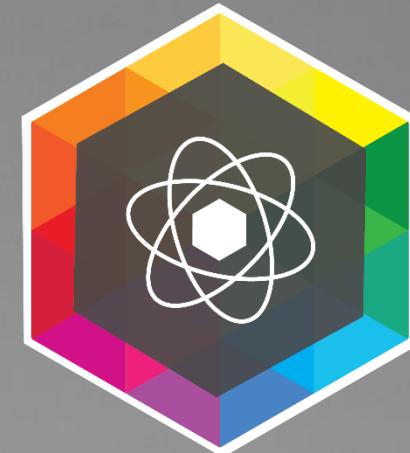
72%

DZIECI UŻYWA
URZĄDZENIA MOBILNE
PRZED 8 ROKIEM
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120 000 000

DZIECI W WIEKU 7-15 lat
W USA I EUROPIE



PHOTON