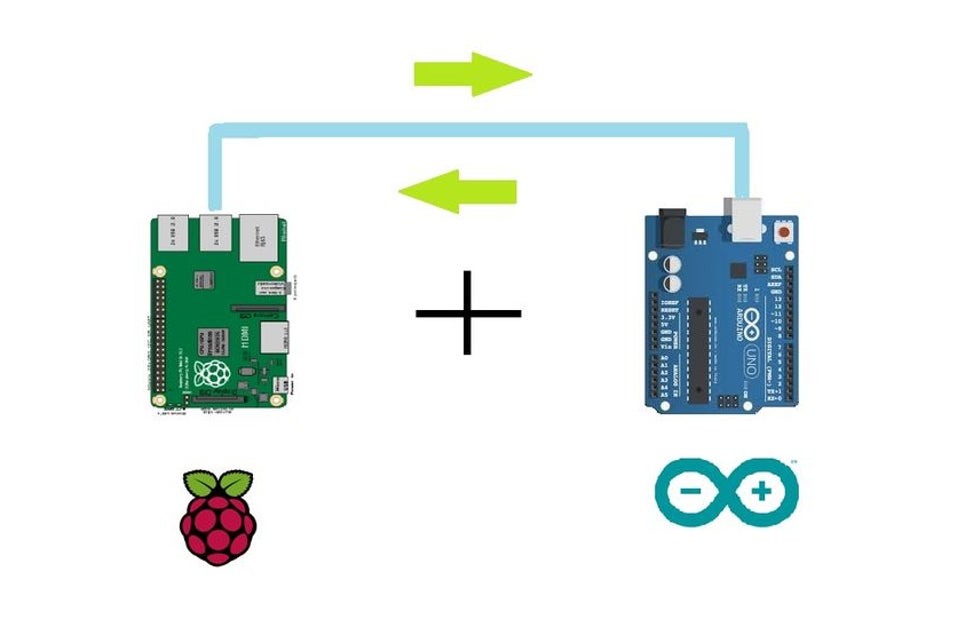
Lab Project engineering

Path to follow:

* Use of Arduino and Raspberry Pi
  + Connect an Arduino to a raspberry
  + Use the Arduino to real-time programming
  + Use the raspberry to upper level software (code in Python)



* Use of Embedded microcontroller in RTOS.
  + Quick response but not many possible operation

Manage to do:

* Send SMS from PYTHON to phone number using a tier system twilio
* Check tts & stt engine under python (search offline one)

Stuff I need:

* Microphone cavalier <https://www.amazon.com/Lavalier-Microphone-Cardioid-Condenser-Computer/dp/B077VNGVL2/ref=pd_sbs_147_7?_encoding=UTF8&pd_rd_i=B077VNGVL2&pd_rd_r=c8259e01-9f43-4d25-a7d2-388cc0e91028&pd_rd_w=71s9E&pd_rd_wg=nNhQX&pf_rd_p=d66372fe-68a6-48a3-90ec-41d7f64212be&pf_rd_r=W3M6XADPRJTKGQZQY9E5&psc=1&refRID=W3M6XADPRJTKGQZQY9E5>
* Camera <https://thepihut.com/products/raspberry-pi-camera-module>

14 of October

Work on the Camera with raspberry Pi

Doesn’t work because the camera is not compatible with the Raspberry Pi 4, I need to try with a raspberry pi 3 else a Webcam would be sufficient to the demonstration of December.

Error: mmal driver not detected test the sunny one on the camera

https://www.amazon.com/dp/B07QWTSJK7/ref=sspa\_dk\_detail\_1?psc=1&pd\_rd\_i=B07QWTSJK7&pd\_rd\_w=qvTYB&pf\_rd\_p=45a72588-80f7-4414-9851-786f6c16d42b&pd\_rd\_wg=XWzH8&pf\_rd\_r=3WV77YAH3QS2BHT9RQ9P&pd\_rd\_r=93350d71-f869-4e92-88d8-7712aaa36645&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEySkpSN1dVV0NXN1RNJmVuY3J5cHRlZElkPUEwNTk3MjM3M1ZLQ0VCUUtaU1hINiZlbmNyeXB0ZWRBZElkPUExMDAwNDc2MlNOV0YxQjNTWkpWUiZ3aWRnZXROYW1lPXNwX2RldGFpbCZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU=

Try to work around the driver problem, but then VLC doesn’t work due to a need to upgrade the board, wait 2 h for the update to be on.