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INSTITUTO PROFESIONAL
CENTRO DE FORMACIÓN TÉCNICA

Taller MQTT

https://titos-carrasco.github.io/TallerMQTT/
https://github.com/titos-carrasco/TallerMQTT/

Dirección Nacional Área Informática
Octubre 2018

CONVENIOS SANTO TOMÁS Y RED ICUSTA INTERNATIONAL COUNCIL OF UNIVERSITIES OF SAINT THOMAS AQUINAS

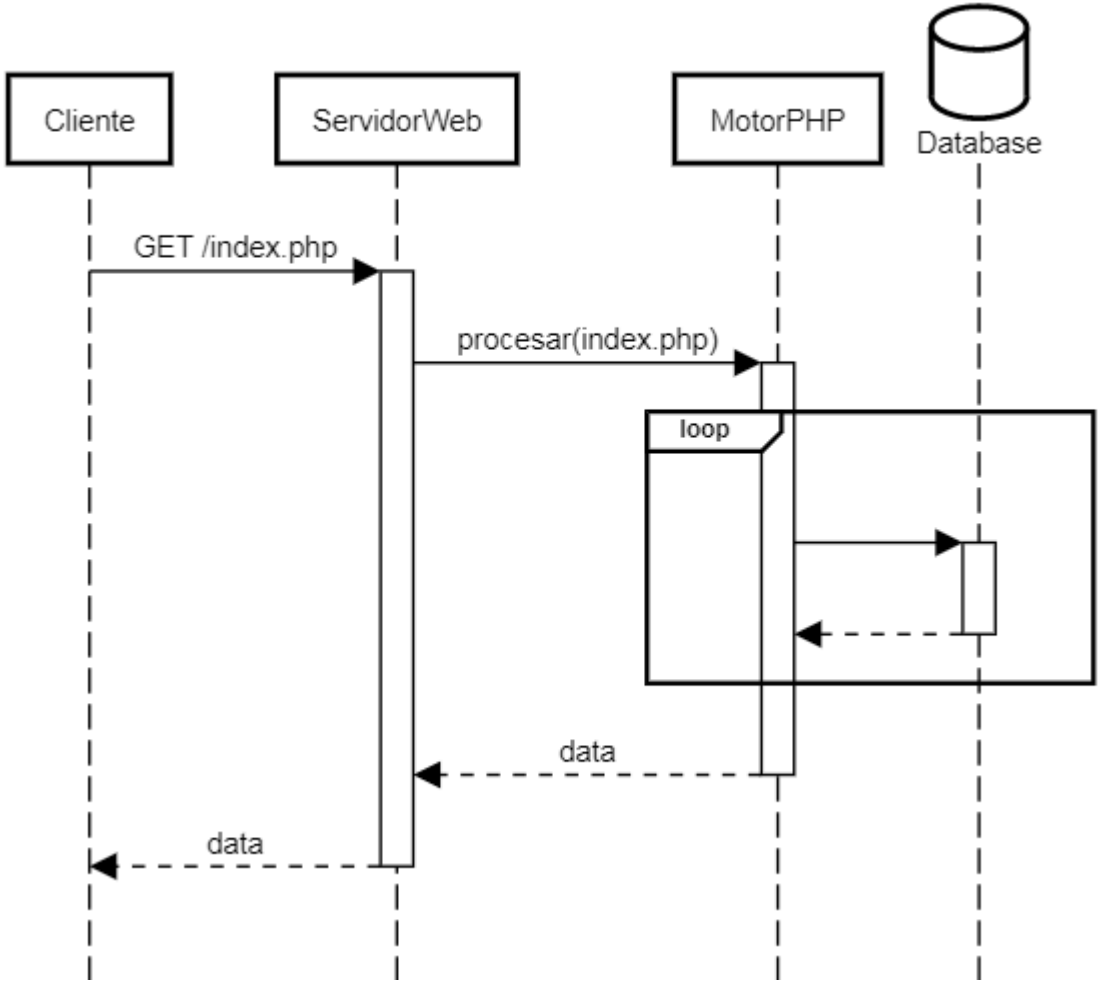
Tercera Plataforma – Transformación Digital

La Nube

La Nube

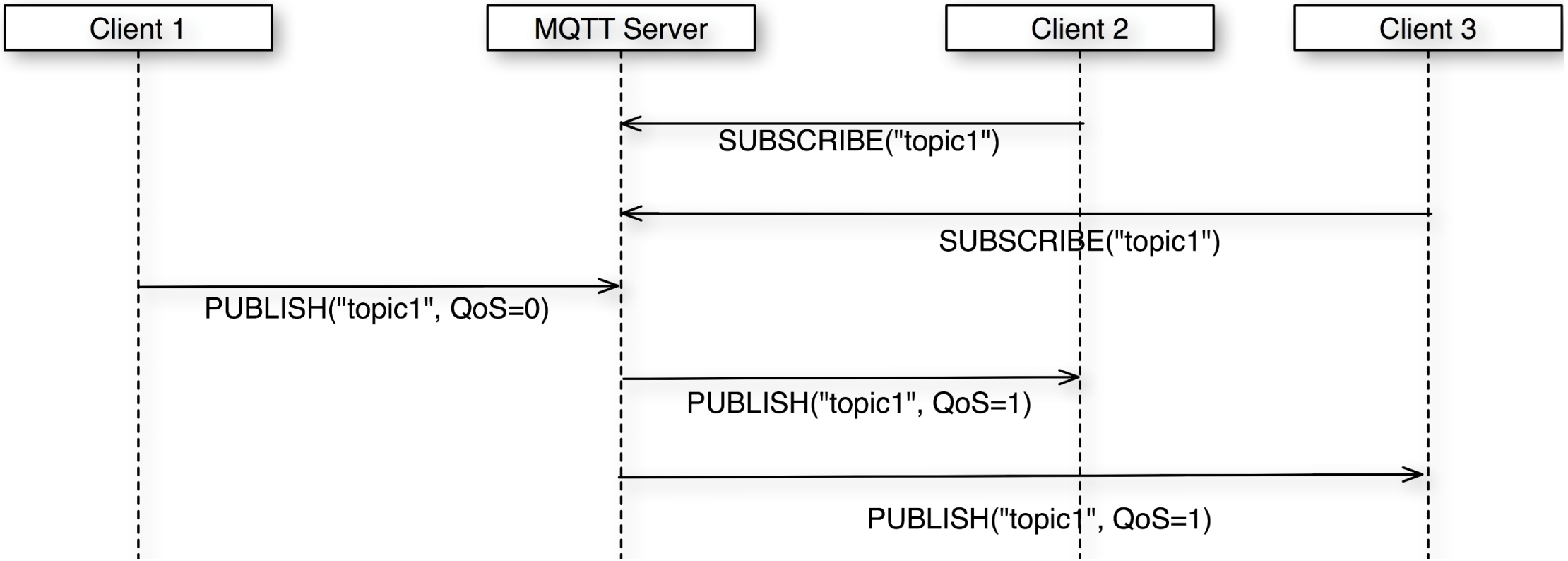
La Nube

Servicio Web

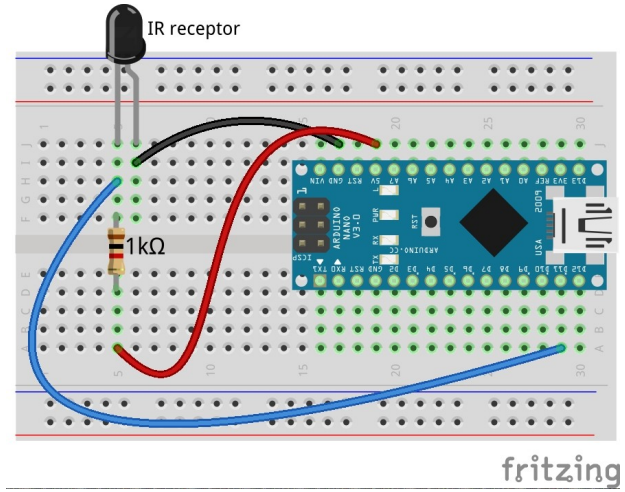


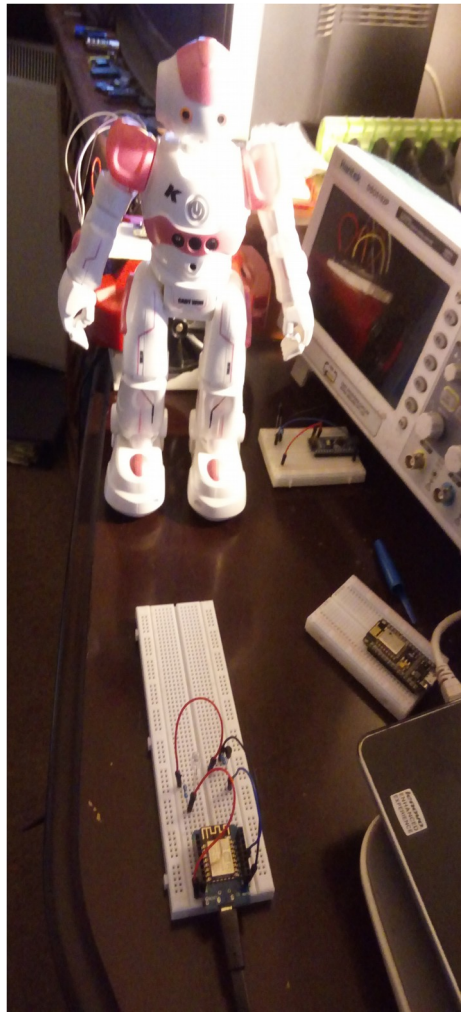
sequencediagram.org

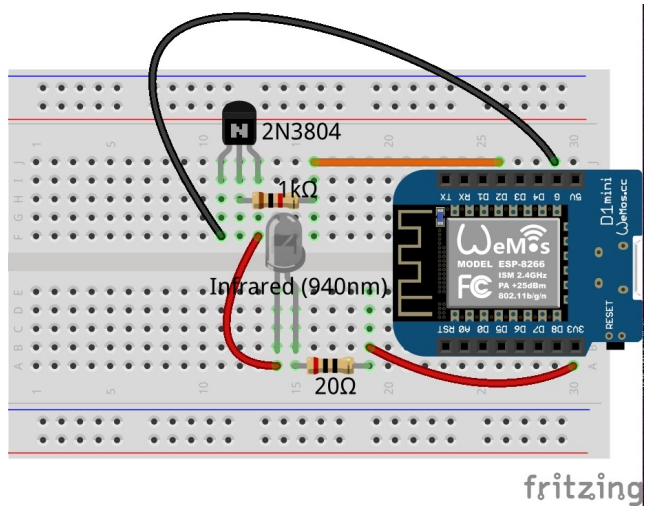
Protocolo MQTT



Demo

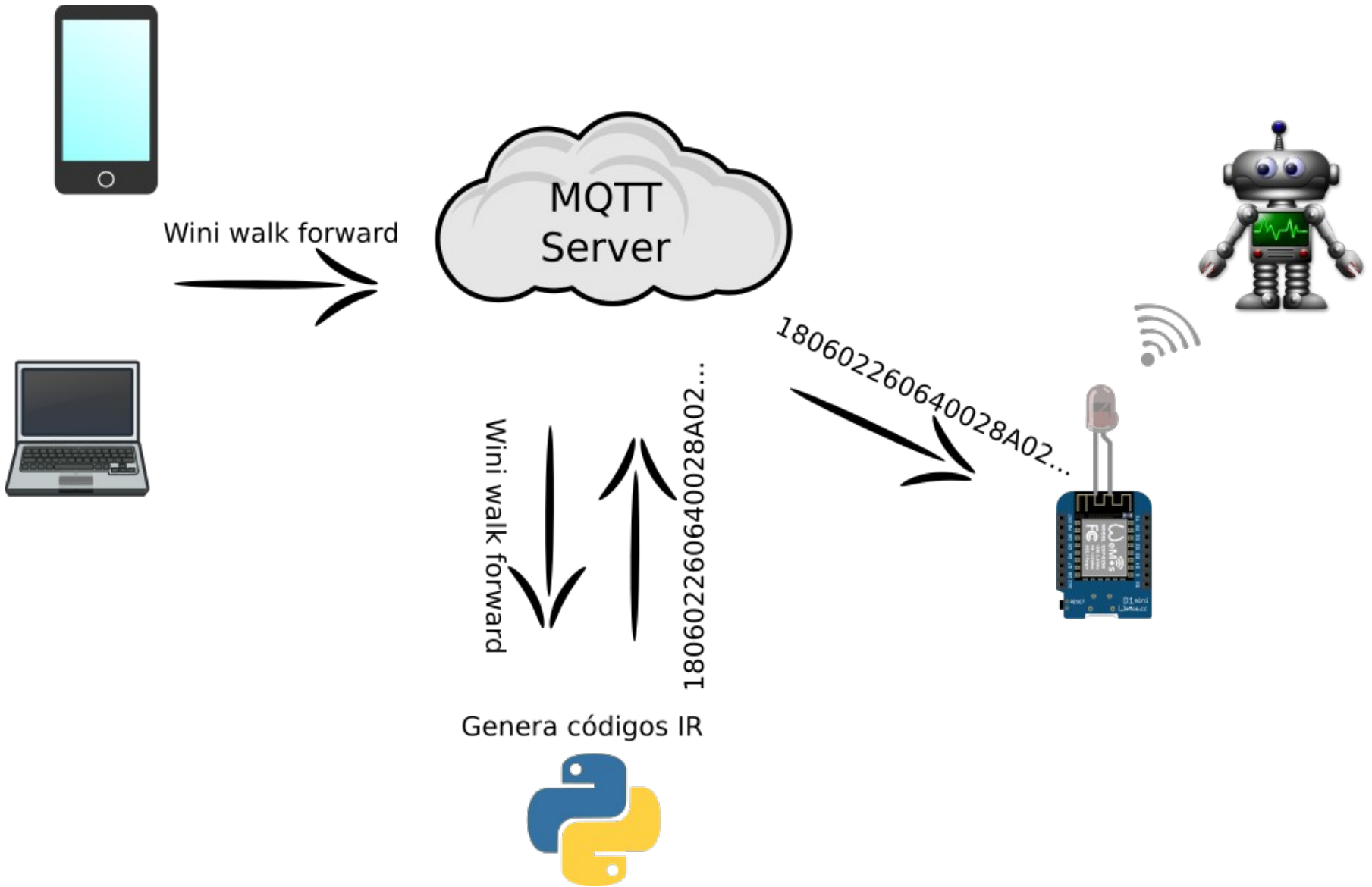




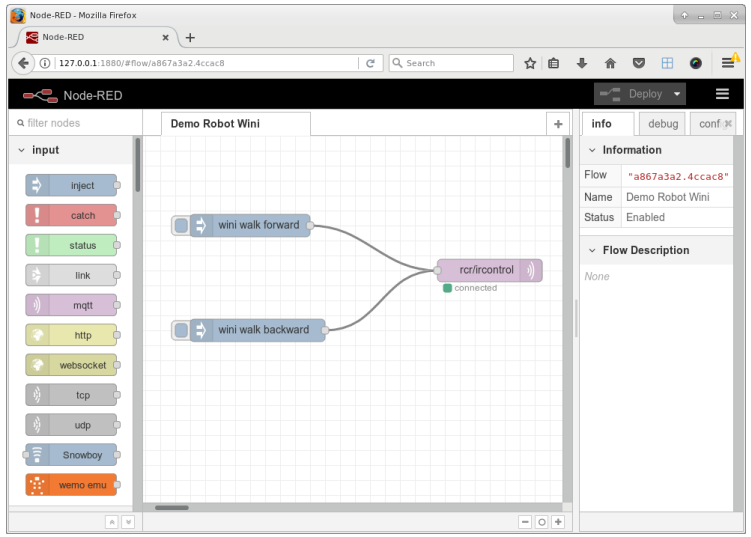


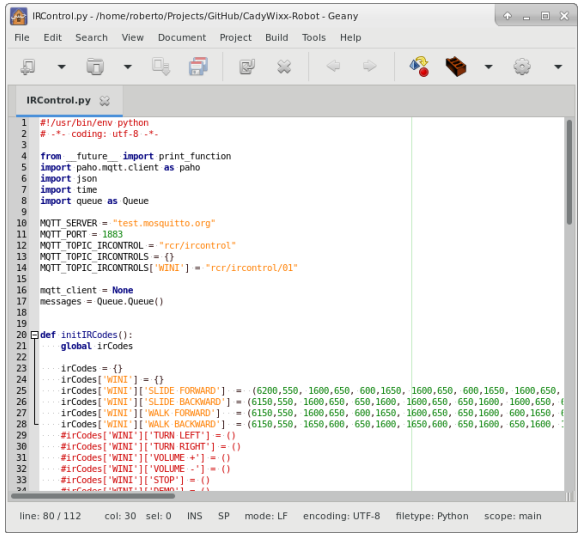
https://github.com/titos-carrasco/CadyWixx-Robot

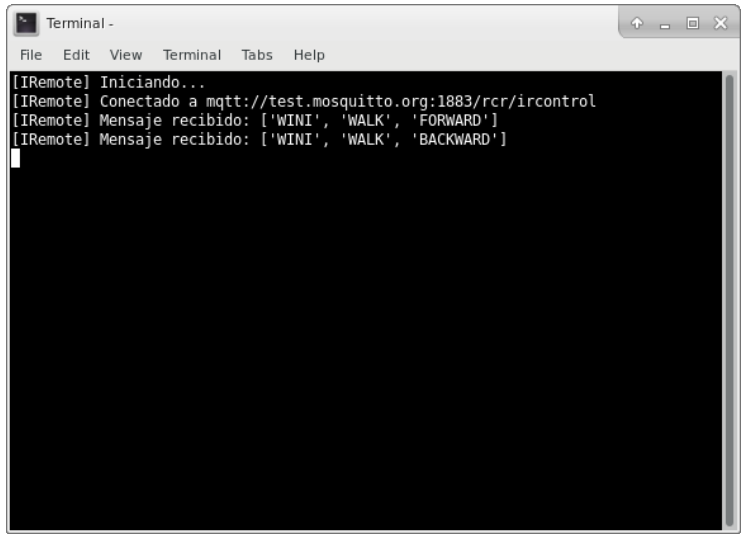
Demo

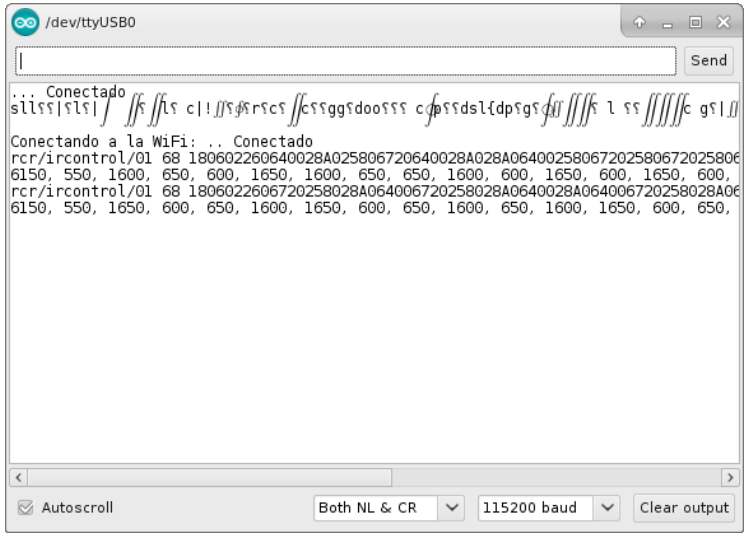

MQTT
Server
Wini walk forward
18060226064002 8A02...
Wini walk forward
18060226064002 8A02...
Genera códigos IR

Demo


Node-RED - Mozilla Firefox
Node-RED
127.0.0.1:1880/#flow/a867a3a2.4ccac8
Node-RED
Deploy
filter nodes
Demo Robot Wini
input
inject
catch
status
link
mqtt
http
websocket
tcp
udp
Snowboy
wemo emu
wini walk forward
wini walk backward
rcr/ircontrol
connected
info
debug
conf
Information
Flow
"a867a3a2.4ccac8"
Name
Demo Robot Wini
Status
Enabled
Flow Description
None


IRControl.py - /home/roberto/Projects/GitHub/CadyWixx-Robot - Geany
File Edit Search View Document Project Build Tools Help
IRControl.py
#!/usr/bin/env python
# -*- coding: utf-8 -*-
from __future__ import print_function
import paho.mqtt.client as paho
import json
import time
import queue as Queue
MQTT_SERVER = "test.mosquitto.org"
MQTT_PORT = 1883
MQTT_TOPIC_IRCONTROL = "rcr/ircontrol"
MQTT_TOPIC_IRCONTROLS = {}
MQTT_TOPIC_IRCONTROLS['WINI'] = "rcr/ircontrol/01"
mqtt_client = None
messages = Queue.Queue()
def initIRCodes():
global irCodes
irCodes = {}
irCodes['WINI'] = {}
irCodes['WINI']['SLIDE FORWARD'] = (6200,550, 1600,650, 600,1650, 1600,650, 600,1650, 1600,650,
irCodes['WINI']['SLIDE BACKWARD'] = (6150,550, 1600,650, 650,1600, 1600,650, 650,1600, 1600,650,
irCodes['WINI']['WALK FORWARD'] = (6150,550, 1600,650, 600,1650, 1600,650, 650,1600, 600,1650,
irCodes['WINI']['WALK BACKWARD'] = (6150,550, 1650,600, 650,1600, 1650,600, 650,1600, 650,1600,
#irCodes['WINI']['TURN LEFT'] = ()
#irCodes['WINI']['TURN RIGHT'] = ()
#irCodes['WINI']['VOLUME +'] = ()
#irCodes['WINI']['VOLUME -'] = ()
#irCodes['WINI']['STOP'] = ()
line: 80 / 112 col: 30 sel: 0 INS SP mode: LF encoding: UTF-8 filetype: Python scope: main


Terminal -
File Edit View Terminal Tabs Help
[IRemote] Iniciando...
[IRemote] Conectado a mqtt://test.mosquitto.org:1883/rcr/ircontrol
[IRemote] Mensaje recibido: ['WINI', 'WALK', 'FORWARD']
[IRemote] Mensaje recibido: ['WINI', 'WALK', 'BACKWARD']


/dev/ttyUSB0
Send
... Conectado
Conectando a la WiFi: .. Conectado
rcr/ircontrol/01 68 180602260640028A02580672064002 8A028A064002580672025806720258067202580 6
6150, 550, 1600, 650, 600, 1650, 1600, 650, 650, 1600, 600, 1650, 600, 1650, 600,
rcr/ircontrol/01 68 180602260672025802 8A064006720258028A0640028A064006720258028A06
6150, 550, 1650, 600, 650, 1600, 1650, 600, 650, 1600, 650, 1600, 1650, 600, 650,
Autoscroll
Both NL & CR
115200 baud
Clear output

LET'S
FUN

DNA

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