

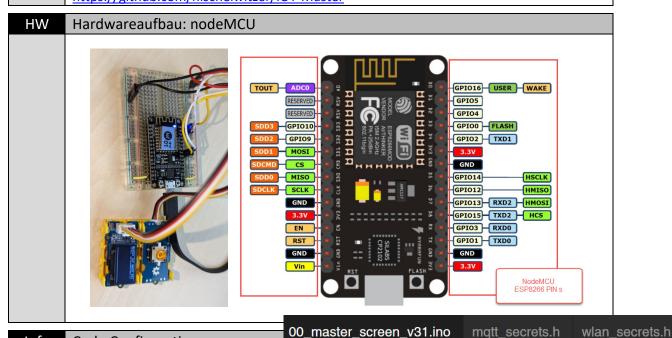
IOT Basis Installation



Main Topic: IOT Installation – nodeMCU

Keywords: nodeMCU, MQTT, Arduino IDE, etc.

•		Select Other Board and Port		х		
Lernziele		Select both a Board and a Port if you want to upload a sketch. If you only select a Board you will be able to compile, but not to upload your sketch.				
IOT Gru	ndsystem aufbauen, installieren und testen	BOARDS	PORTS			
	•	nodemcu ×	Q NO PORTS DISCOVERED			
Steps	Lernschritte und Infos	NodeMCU 0.9 (ESP-12 Module)				
1	IOT HW Aufbauen (siehe Grafik und LV) nodeMCU	Grafik und LV) nodeMCU NodeMCU NodeMCU 1.0 (ESP-12E Module) ✓				
Input: Button, Output: OLED & Led; USB Strom/Dev						
2	Arduino Installation: https://www.arduino.cc/en/software/					
3	USB Driver CP210X Driver (wenn nötig) → check unter Gerätemanager					
	https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads					
4	Arduino IDE Konfigurieren: Preferences → Boardmanager					
	http://arduino.esp8266.com/stable/package_esp8266com_index.json					
	https://dl.espressif.com/dl/package_esp32_index.json					
5	Libraries installieren: #include					
	C:\Users\xxx\OneDrive\Dokumente\Arduino\ <mark>libraries</mark>					
	<wire.h>, <u8g2lib.h>, <esp8266wifi.h>, <esp8266wifimulti.h>, <pubsubclient.h></pubsubclient.h></esp8266wifimulti.h></esp8266wifi.h></u8g2lib.h></wire.h>					
6	IOT Basiscode installieren (siehe Projektordner) and github					
	https://github.com/nischelwitzer/IOT-Master					



Info	Code Configuration	UU_master_scre	en_v31.ino	mqtt_secrets.n	wian_
	<pre>wlan_secrets.h → Wlan SSIDs (WifiMulti) mqtt_secrets.h → MQTT Broker (z.B. dmt.fh-joanneu.at) 00_master_screen_v31.ino → MQTT Topcis const char* MQTT TOPIC PUB INFO = "dmtXX/info";</pre>				
Info	eps01-S	nodel	nodeMCU esp8266		
	Board: Generic esp8266	ard: Generic esp8266 Board: nodeMCU 1.0			
	Pins: 1, 2, 3	Pins:	D1, D2, D3		

L	Links: Sensorinfos, Grove Seeedstudio	
	https://www.seeedstudio.com/ https://wiki.seeedstudio.com/Grove_System/	
	MQTT Dash: MQTT Dash (Android)	
	nodeRED: https://nodered.org/docs/getting-started/windows	
	MQTT Client: z.B. mqttFX	