Interface-komponente	Detail	Library	Lizenz	Name der Autoren
Umweltdaten Bosch BME	Bosch BME280	Sparkfun BME280 V1.0.0 https://github.com/sparkfun/SparkFun_BME280_Arduino_Library		Marshall Taylor @ SparkFun Electronics
	Bosch BME680	https://github.com/adafruit/Adafruit_BME680		Limor Fried/Ladyada
	Adafruit_Unified_Sensor	https://github.com/adafruit/Adafruit_Sensor		
Beschleunigung Bosch BMO055	https://www.adafruit.com/product/2472	https://github.com/adafruit/Adafruit_BNO055		Kevin (KTOWN)
Grove MMA7660	http://wiki.seeed.cc/Grove-3-Axis_Digital_Accelerometer-1.5g/	github.com/Seeed-Studio /Accelerometer_MMA7660		Frankie Chu
RGB-LED	Neopixel	https://github.com/adafruit/Adafruit_NeoPixel		Phil Burgess. PJRC, Michael Miller
	WS2801	https://github.com/adafruit/Adafruit-WS2801-Library		Limor Fried/Ladyada
Touch	https://www.adafruit.com/product/1982	Adafruit_MPR121 https://github.com/adafruit/Adafruit_MPR121		Limor Fried/Ladyada
NFC/RFID	http://wiki.seeed.cc/Grove-NFC/	https://github.com/Seeed-Studio/PN532 https://github.com/Seeed-Studio/Grove-NFC-libraries-Part		@Don, @JiapengLi, @awieser Kevin Townsend Don Coleman
Control App	Blynk	https://github.com/blynkkk/blynk-library/releases/latest		Volodymyr Shymanskyy
Gassensor Multichannel	http://wiki.seeed.cc/Grove-Multichannel_Gas_Sensor/	https://github.com/Seeed-Studio/Mutichannel_Gas_Sensor		Grove system
Dreh/Drück Rotary-Encoder	https://www.pjrc.com/teensy/td_libs_Encoder.html	Encoder by Paul Stoffregen V1.4.1 https://github.com/PaulStoffregen/Encoder		Paul Stoffregen
LED-Matrix Charlieplex	learn.adafruit.com/adafruit-15x7-7x15-charlieplex-led-matrix-charliewing-featherwing/	https://github.com/adafruit/Adafruit_IS31FL3731		
	Textausgabe	Adafruit GFX V1.1.5 https://github.com/adafruit/Adafruit-GFX-Library		

MQTT	https://pubsubclient.knolleary.net/index.html	PubSubClient github.com/knolleary/pubsubclient/releases/tag/v2.6	Nick O'Leary
GSM	Mobilfunk	TinyGSM, 0.1.7, tiny.cc/tiny-g_n sm-readme StreamDebugger	Volodymyr Shymanskyy
Serielle Schnittstelle	Software Seriell	github.com/plerup/espsoftwareserial	Peter Lerup
OTA	On Air Update	github.com/esp8266/Arduino/tree/master/libraries/ArduinoOTA	
LoRaWAN	FeatherWing (IBM-LMIC)	https://github.com/mcci-catena/arduino-lmic	Thomas Telkamp Matthijs Kooijman MCCI Corporation
Digital I/O Extender	https://learn.sparkfun.com/tutorials/sx1509-io-expander-breakout-hookup-guide	https://github.com/sparkfun/SparkFun_SX1509_Arduino_Library	Jim Lindblom
I2C-ADC Extender	http://wiki.seeed.cc/Grove-I2C_ADC/		
Motoren	FeatherWing Adafruit Motor-Shield http:\www.adafruit.com/products/1438	https://github.com/adafruit/Adafruit_Motor_Shield_V2_Library	
7-Segment	FeatherWing Adafruit	https://github.com/adafruit/Adafruit_LED_Backpack	
Gesten, Lichtfarbe	APDS-9960 Breakout Board (SEN-12787)	https://github.com/sparkfun/SparkFun_APDS-9960_Sensor_Arduino_Library/tree/V_1.4.2	
CO2	https://www.sensirion.com/de/umweltsensoren/kohlendioxidsensoren-co2/	https://github.com/paulvha/scd30	Nathan Seidle SparkFun Electronics Modified for esp8266 by paulvha
Feinstaub	http://wiki.seeedstudio.com/Grove-Laser_PM2.5_Sensor-HM3301/	https://github.com/Seeed-Studio/Seeed_PM2_5_sensor_HM3301	
Feinstaub	Honeywell HPMA115S0	https://www.dfrobot.com/wiki/index.php/PM2.5_laser_dust_sensor_SKU:SEN0177	Zuyang @ HUST

Blynk	Control App	Blynk http://www.blynk.cc	Volodymyr Shymanskyy
LIDAR		http://en.benewake.com/product/detail/5c345e26e5b3a844c472329c.html	
Touch-Sensor	https://learn.adafruit.com/adafruit-mpr121-12-key-capacitive-touch-sensor-breakout-tutorial	https://github.com/adafruit/Adafruit_MPR121	Fried/Ladyada
PaxCounter (WiFi-Sniffer)	https://www.youtube.com/watch?v=fmhjtzmLrg8	https://github.com/SensorsIot/Wi-Fi-Sniffer-as-a-Human-detector	Andreas Spiess, Ray Burnette