

# Rolf Becker (rolf001) - Public Page

These pages are meant to be my personal scratch books, for arbitrary notes.

## 2025-09-17 ULL LoRaWAN Dragino DLOS8

- TTN Management Console: <https://eu1.cloud.thethings.network/console>
- draginogw-iotlab-006:  
<https://eu1.cloud.thethings.network/console/gateways/draginogw-iotlab-006>
- Manual DLOS8:  
[https://www.dragino.com/downloads/downloads/LoRa\\_Gateway/DLOS8/DLOS8\\_LoRaWAN\\_Gateway\\_User\\_Manual\\_v1.3.pdf](https://www.dragino.com/downloads/downloads/LoRa_Gateway/DLOS8/DLOS8_LoRaWAN_Gateway_User_Manual_v1.3.pdf)

Sensecap:

- [https://wiki.seeedstudio.com/Sensor/SenseCAP/SenseCAP\\_Data\\_Logger/tutorial/How\\_to\\_Configure\\_the\\_12V\\_RS485\\_Sensor\\_for\\_S2100\\_Data\\_Logger/](https://wiki.seeedstudio.com/Sensor/SenseCAP/SenseCAP_Data_Logger/tutorial/How_to_Configure_the_12V_RS485_Sensor_for_S2100_Data_Logger/)
- <https://www.seeedstudio.com/SenseCAP-S2105-LoRaWAN-Soil-Temperature-Moisture-and-EC-Sensor-p-5358.html>
- [https://wiki.seeedstudio.com/SenseCAP\\_Sensor\\_Intro/](https://wiki.seeedstudio.com/SenseCAP_Sensor_Intro/)

## SenseCAP S2110 Grove to MODBUS RS485 Converter (aka Sensor Builder):

- <https://wiki.seeedstudio.com/Build-LoRaWAN-Sensors-SenseCAP-XIAO-Controller-Data-Logger/>
- [https://github.com/Seeed-Studio/Seeed\\_Arduino\\_S2110](https://github.com/Seeed-Studio/Seeed_Arduino_S2110)
- [https://files.seeedstudio.com/wiki/SenseCAP\\_S2110\\_builder/Schematic-SenseCAP%20S2110%20Sensor%20Builder.pdf](https://files.seeedstudio.com/wiki/SenseCAP_S2110_builder/Schematic-SenseCAP%20S2110%20Sensor%20Builder.pdf)

## Grove SR485

- <https://wiki.seeedstudio.com/Grove-RS485/>

## 2024-05-19 - NVIDIA Jetson AGX Orin 64GB Setup

- [AGX Orin](#)

## RASA NLU

I want to use [RASA](#) as a ChatBot to fill forms.

# vosk ASR

Automatic Speech Recognition (ASR) with [vosk](#)

## Hackday Moers 2023

### Caspers Data API

- <https://opendata.dasdigidings.de/>

### TTN Appllication Moers Umwelt

- <https://eu1.cloud.thethings.network/console/>
- User ro
- <https://eu1.cloud.thethings.network/console/applications/moers-umwelt>

### Node-RED

<https://nodered.org/docs/getting-started/raspberrypi>

```
### ADDITIONAL RECOMMENDATIONS ###
- Remove the /etc/sudoers.d/010_pi-nopasswd file to require entering your
password
  when performing any sudo/root commands:

  sudo rm -f /etc/sudoers.d/010_pi-nopasswd

- You can customise the initial settings by running:

  node-red admin init

- After running Node-RED for the first time, change the ownership of the
settings
  file to 'root' to prevent unauthorised changes:

  sudo chown root:root ~/.node-red/settings.js
```

```
sudo systemctl enable nodered.service


sudo systemctl start nodered.service
```

### Password auf Node-RED setzen

## Web Frontend

- <http://192.168.1.117:1880/>
- <http://rollo.local:1880/>

## InfluxDB

- <https://www.influxdata.com/>
- <https://docs.influxdata.com/influxdb/v2.6/get-started/>
- <https://docs.influxdata.com/influxdb/v1.8/introduction/download/>
-  <https://docs.influxdata.com/influxdb/v1.8/introduction/install/?t=curl>

```
cd ~
```

```
# influxdata-archive_compat.key GPG Fingerprint:
9D539D90D3328DC7D6C8D3B9D8FF8E1F7DF8B07E
curl -s https://repos.influxdata.com/influxdata-archive_compat.key >
influxdata-archive_compat.key
echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c
influxdata-archive_compat.key' | sha256sum -c && cat influxdata-
archive_compat.key | gpg --dearmor | sudo tee
/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg > /dev/null
echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg]
https://repos.influxdata.com/debian stable main' | sudo tee
/etc/apt/sources.list.d/influxdata.list
```

```
ls -al
```

```
sudo apt-get update && sudo apt-get install influxdb
sudo systemctl unmask influxdb.service
sudo systemctl start influxdb
```

- [https://docs.influxdata.com/influxdb/v1.8/administration/authentication\\_and\\_authorization/](https://docs.influxdata.com/influxdb/v1.8/administration/authentication_and_authorization/)
- [https://docs.influxdata.com/influxdb/v1.8/administration/authentication\\_and\\_authorization/#use-r-management-commands](https://docs.influxdata.com/influxdb/v1.8/administration/authentication_and_authorization/#use-r-management-commands)

```
influx
```

```
CREATE USER admin WITH PASSWORD '<password>' WITH ALL PRIVILEGES
```

```
exit
```

```
# drop user admin
```

```
sudo vi /etc/influxdb/influxdb.conf
```

```
# Determines whether user authentication is enabled over HTTP/HTTPS.  
auth-enabled = true
```

```
sudo systemctl restart influxdb.service
```

```
influx
```

```
create database sensordaten
```

```
# Port 8086
```

## Grafana

<https://grafana.com/tutorials/install-grafana-on-raspberry-pi/>

```
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -  
  
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a  
/etc/apt/sources.list.d/grafana.list  
  
sudo apt-get update  
  
sudo apt-get install -y grafana  
  
systemctl enable grafana-server  
# Port 3000
```

## Royal Eijkelkamp

[Meeting 2022-02-09](#)

My [private](#) page.

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