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# Projectdefinitie

## Samenvatting

Baken verlichtingen dienen ervoor om schippers veilig te laten varen zonder dat deze een aanvaring krijgen. Daarom is het doel van het project om de huidige bakens in de PoAB slimmer te maken. De huidige bakens hebben op dit moment geen mogelijkheid tot verbinding met het LoRaWan netwerk. Er is ook geen microcontroller aanwezig waardoor er geen data kan verstuurd of ontvangen worden, hierdoor kunnen de lichten niet vanop afstand geregeld worden. En is er geen controle over of deze bakens dag en/of nacht branden.

Door de bakens te voorzien van een LoRaWan ontvanger/zender en een microcontroller kunnen we de volgende functies bekomen: de baken vanop afstand kunnen aan/uit zetten, de baken moet weergeven of de led defect is of niet, de gps-locatie zal doorgegeven kunnen worden. Voor de toekomst is het mogelijk om extra sensoren aan te sluiten op de PCB. Zodat er later bv. luchtvervuiling gemeten kan worden. De batterij van de baken zal worden opgeladen a.d.h.v. een zonnepaneel.

## Doelstelling

Voor dit project moeten we:

* Een slimme baken maken die communiceert met het LoRaWan netwerk en de veiligheid in de haven maximaliseert.
* De conditiestaat uitlezen van een baken
  + Aan/uit per armatuur
  + Batterijstatus (capaciteit)
* Automatisch foutmeldingen genereren.
  + Melding wanneer een armatuur niet oplicht.
  + Melding wanneer de batterij onder zijn gemiddelde waarde komt.
* Informatie over zijn gps-locatie geven.
* De baken moet kunnen detecteren of er één of meerdere armaturen niet oplichten wanneer deze horen opgelicht te zijn.
* De bakens vanop afstand kunnen bedienen zodat deze manueel aan/uit gezet kunnen worden.
* De capacitieve waarde van de batterij moet worden weergegeven in procent.
* De batterij van de baken laten opladen a.d.h.v. een zonnepaneel.
* De baken toekomstgericht voorzien door meerdere aansluitingen te voorzien voor eventuele extra sensoren/actuatoren

## Visie eindproduct

Het eindproduct van dit project zal er uitzien als een prototype dat op een externe locatie kan geplaats worden. Dit prototype zal verbinding kunnen maken met het LoRaWan netwerk. Via deze verbinding zullen er 3 armaturen kunnen worden aangestuurd. Het prototype zal kunnen controleren of deze lampen aan of uit zijn, de locatie ophalen en de batterijstatus doorgeven. Het prototype zal gevoed worden door een batterij die via een zonnepaneel opgeladen zal worden.

# Hardware

## Blokdiagram

Algemeen:

Afbeelding met tekst, diagram, Plan, Rechthoek

Automatisch gegenereerde beschrijving

PCB:

Afbeelding met lijn, Rechthoek, Parallel, Lettertype

Automatisch gegenereerde beschrijving

Sensoren:

Afbeelding met tekst, schermopname, Rechthoek, Lettertype

Automatisch gegenereerde beschrijving

Armatuur sturing:

Afbeelding met tekst, schermopname, Rechthoek, lijn

Automatisch gegenereerde beschrijving

## Componenten

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Blok | Specificatie | Aantal | Prijs | Link |
| Arduino MKR WAN 1300 | Vcc = 5V-5.5V CPU = SAMD21 I2C, UART, SPI, LoRa | 1 | € 43.0 | [MKR WAN](https://elektronicavoorjou.nl/product/arduino-mkr-wan-1300-met-ufl-connector/?gclid=Cj0KCQjw4NujBhC5ARIsAF4Iv6diOu_cMambUcYo5Zub3Ltkn2MHcwze48Gp-CkRiwydBUuFzO42hgAaAkhzEALw_wcB) |
| 5V regulator | Uin = 5V-18V  Uout = 5V | 1 | € 0.64 | [L7805CV](https://www.digikey.be/nl/products/detail/stmicroelectronics/L7805CV/585964) |
| Batterij meting | Vcc = 3V-5.5V Umax = 26V Imax = 3.2A I2C | 1 | € 4.13 | [INA219](https://www.tinytronics.nl/shop/nl/sensoren/stroom-spanning/ina219-i2c-dc-stroom-en-spanningsmeter-3.2a-module) |
| Licht sensor | Vcc = 4-6V Sensitivity = 570nm | 4 | € 1.31 | [TEMT6000X01](https://www.digikey.be/nl/products/detail/vishay-semiconductor-opto-division/TEMT6000X01/1681189) |
| Stroom meting | Vcc = 4.5V-5.5V Icc = 13mA Imax = 5A  Sensitivity = 185 mV/A | 3 | € 3.54 | [ACS712-05B](https://www.digikey.be/nl/products/detail/allegro-microsystems/ACS712ELCTR-05B-T/1284593?s=N4IgTCBcDaIIIGEDKB2AjGAogGQQFQCUBaABgFYAhIvEAXQF8g) |
| Led driver | Iout = 500 mA  Vout = 40V | 3 | € 0.34 | [BCR411UW6-7](https://be.farnell.com/diodes-inc/bcr421uw6-7/led-driver-aec-q101-linear-sot/dp/3127238?CMP=KNC-GBE-GEN-KWL-CATCH-ALL-PUR-CONTROL-964&mckv=782Abg6A_dc|pcrid|452070880244|&gclid=CjwKCAjwgqejBhBAEiwAuWHioN9oa0La5eO2bZ0L3xbqMlZj98r5iTWDkzpQHyZ-mZa5zQkSyO7D3xoCi_8QAvD_BwE) |
| Mosfet relais | Led current = 3 mA Umax = 30V Imax = 1A | 3 | € 3.44 | [AQY211EHAZ](https://be.farnell.com/panasonic/aqy211ehaz/mosfet-relay-spst-1a-30v-dip-4/dp/3881433) |
| I2C ADC module | Vcc = 2V-5.5V 16-bit ADC I2C | 1 | € 5.50 | [ADS1115 16-bit ADC I2C Module](https://www.tinytronics.nl/shop/nl/sensoren/stroom-spanning/ads1115-16-bit-adc-i2c-module-4-kanaals) |
| GPS | Vcc = 3.3V-5V Icc = 35 mA UART = 9600 | 1 | € 19.41 | [NEO-7M](https://www.bol.com/be/nl/p/otronic-neo-7m-gps-module-met-antenne/9300000097011732/?Referrer=ADVNLGOO002013-S--9300000097011732&gclid=Cj0KCQjw4NujBhC5ARIsAF4Iv6f5Tj5lx0mm_YLV6zjwro_PIPXFojDEi3EFuYBsLKP6yFpNGM1o99EaAlddEALw_wcB) |
| Solar charge controller | Range = 12V, 24V, 48V I = 10A | 1 | € 71.9 | [Victron Energy](https://www.conrad.be/nl/p/victron-energy-blue-solar-pwm-lcd-usb-solar-laadregelaar-pwm-12-v-24-v-10-a-2497145.html?refresh=true) |
| Batterij | Vout = 12V Capacity = 50 Ah Weight = 15.1 kg | 1 | € 169.9 | [WP50-12NE](https://www.conrad.be/nl/p/long-wp50-12ne-loodaccu-12-v-50-ah-loodvlies-agm-b-x-h-x-d-199-x-171-x-166-mm-m6-schroefaansluiting-cyclusbestendig-2368959.html) |

### Arduino MKR WAN 1300Arduino MKR WAN 1300

We gaan gebruik maken van de Arduino MKR WAN 1300. Dit bord is op de markt gebracht door Arduino om een praktische en lage kost oplossing te voorzien met een laag verbruik. De processor aanwezig op het bord is de “Arm Cortex-M0 32 bit SAMD21”. We hebben dit bord gekozen omdat deze te programmeren is met de Arduino IDE waarin we al ervaring hebben. Het bordje is voorzien van de mogelijkheid om te verbinden met een bestaand LoRaWan netwerk. Dit netwerk is aanwezig in de haven, LoRaWan wordt later meer in detail uitgelegd. De microcontroller werkt op 3.3V. Hij heeft 14 digitale pinnen en 6 analoge pinnen. Het bordje kan gevoed worden met 5V doordat deze een onboard regulator heeft.

Gebruik:

* Installeren van de correcte board manager
  1. Arduino IDE
  2. Tools -> Board: -> Boards Manager
  3. Type in “samd”
  4. Installeer “Arduino SAMD Boards (32-bits ARM Cortex-M0+)”  
     Afbeelding met tekst, schermopname, software, Lettertype

     Automatisch gegenereerde beschrijving
* Selecteren van de juiste board manager
  1. Arduino IDE
  2. Tools -> Board: -> Arduino SAMD -> Arduino MKR WAN 1300
* Werking uittesten
  1. We gaan de ingebouwde led aan en uit laten gaan
  2. Afbeelding met tekst, schermopname, Lettertype

     Automatisch gegenereerde beschrijving

### 5V regulator

Op de PCB gaan we gebruik maken van een 5V regulator de L7805CV om de nodige component correct te voeden. De ingang spanning van de PCB is 12V die afkomstig is van de solar charge controller.

De volgende componenten hebben 5V voeding nodig.

* MKR WAN 1300 – microcontroller
* I2C ADC Module – analog digital converter I2C
* ACS712 – stroom meting

Afbeelding met diagram, lijn, Lettertype, schermopname

Automatisch gegenereerde beschrijvingAansluitingen L7805CV.

* Input = 5V-18V
* Ground = grond
* Output = 5V

### Batterij meting

Afbeelding met Elektronische engineering, elektronica, Elektronisch onderdeel, tekst

Automatisch gegenereerde beschrijvingOm te kunnen bepalen hoeveel percentage dat de batterij nog heeft moeten we deze kunnen uitmeten. We gaan dit doen met het INA219 bord. Deze beschikt over I2C communicatie waarmee de MKR WAN 1300 kan communiceren. Om de component uit te lezen maken we gebruik van de “Adafruit\_INA219” library. Deze library laat ons toe om de data direct te verkrijgen zonder extra instellingen te moeten uitvoeren.

Gebruik van de INA219.

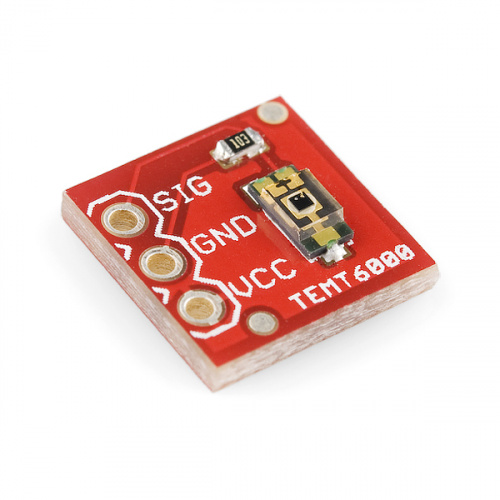
* Library definiëren bovenaan de code
  + 
* De library initialiseren in de setup
  + Afbeelding met tekst, Lettertype, schermopname, lijn

    Automatisch gegenereerde beschrijving
* De waardes ophalen in de loop
  + Afbeelding met tekst, Lettertype, schermopname, lijn

    Automatisch gegenereerde beschrijving
* Resultaat
  + Afbeelding met tekst, Lettertype, ontvangst, gereedschap

    Automatisch gegenereerde beschrijving

### Licht sensor

Als licht sensor voor deze toepassing hebben we gekozen voor de TEMT6000X01. De licht sensor wordt op 2 plaatsen in het project gebruikt. Het wordt gebruikt om te controleren of de armaturen lichten effectief licht geven als deze worden aangestuurd. Ook word er één licht sensor gebruikt om de omgevingslicht te meten. Hiermee kunnen we bepalen of het nacht of dag is. Deze sensor zal op een PCB worden geplaats zodat die dicht bij de lampen kan geplaats worden.

Gebruik TEMT6000X01 met MKR WAN 1300.

* Aansluitingen
  + Vcc = 3.3V
  + Sig = A0 (analoge pin 0)
  + GND = grond
* Inlezen van de sensor
  + Afbeelding met tekst, schermopname, Lettertype

    Automatisch gegenereerde beschrijving

### Stroom meting

Afbeelding met ontwerp

Automatisch gegenereerde beschrijvingWe gaan gebruik maken van een stroom meting via de ACS712. Dit omdat we zo een extra controle kunnen uitvoeren of de armaturen oplichten of niet. Voor elk armatuur staat er een stroom meting die verbonden is met de I2C ADC module. Dit zorgt ervoor dat we de stroom per armatuur kunnen inlezen.

Probleem voeding ACS712

* De ACS712 heeft 5V nodig als voeding om een correcte werking te hebben. Hierdoor zal de uitgaande spanning liggen tussen 5V en 0V. Het probleem is dat de MKR WAN 1300 maar spanningen aan kan van 3.3V-0V. Hierdoor zou het dus kunnen als de ACS712 een grote stroom meet dit resulteert in een hoge ADC waarde waardoor de pinnen van de MKR WAN 1300 stuk zouden gaan.
* Oplossing
  + We maken gebruik van een I2C ADC module. Deze module werkt ook op 5V maar doordat deze communiceert over I2C met de MKR WAN 1300 is er geen probleem dat er 5V op de pinnen van de MKR WAN 1300 komen te staan. Hierdoor zijn de 3 ACS712 verbonden met de I2C ADC module.

### DIODES INC. BCR421UW6-7Led driver

De led driver BCR412UW6-7 zal ervoor zorgen dat de armaturen een correcte stroom krijgen. Als er geen led driver aanwezig is zullen de leds binnenin de armaturen stuk gaan. Wij hebben gekozen voor een stroom van ± 120 mA.

Afbeelding met diagram, lijn, tekst, origami

Automatisch gegenereerde beschrijvingAansluitingen BCR412UW6-7

* EN = enable pin deze wordt gebruikt om de IC te gebruiken
* OUT = de aansluiting vanaf de uitgang van de led naar gnd
* Rext = externe weerstand die het stroom niveau bepaalt
* GND = grond

Alternatieven led driver

* Vermogen weerstand
  + Wij hebben hier niet voor gekozen doordat deze warm worden en hierdoor veel energie verbruikt.

### Mosfet relais

De mosfet relais AQY211EHAZ wordt gebruikt om de led driver te schakelen. Die ervoor zorgt dan de armaturen aan of uit gaan. Deze is aangesloten op een uitgang pin van de MKR WAN 1300.

Waarom gebruiken we een mosfet relais?

* Oorspronkelijk gingen we niet werken met een led driver, waardoor er een grote stroom gestuurd moest worden door een andere component. Om deze grote stroom te schakelen zijn we opzoek gegaan naar verschillende mogelijkheden. Omdat de PCB al getekend was met de mosfet relais is deze aanwezig in het huidige prototype.

Onderzoek voor het aansturen van grote verbruikers. In dit gedeelte gaan we na welke component we het beste kunnen gebruiken voor het aansturen van de lampen.

* Relais
  + Een relais is een elektromagnetische schakelaar. Deze bestaat uit een spoel, het anker en een plaat ijzer dat wordt aangetrokken door de magneet.
* SSR (solid state relais)
  + Een SSR of halfgeleiderrelais is principieel gezien geen relais want er zijn geen bewegende delen. Deze bestaat ui een interne led, fototransistor en een transistor/scr/triac.
* Mosfet
  + De mosfet is een bepaald type veld effecttransistor (FET). Deze bestaat uit verschillende lagen (metaal, oxide, semiconductor)
* ![Afbeelding met elektronica, Stroomkringonderdeel, Passief stroomkringonderdeel, Elektronisch onderdeel

  Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMgAAkpIAAgAAAAMzMgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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5P4I8UyTeFWshLHNDb5CyDggHsRXzD451KLV/HV/cQBgquY/m7kHFfT8UMJjS1tY1hso/vsABvx2968O8U+Db7xh8XdUsfBmmpKI1QyLEQqR8csT9aavbUmVjpPgX4FXxbp2um4nltoRGsCSxgHDE5PB68CvSLf8AZx8MAg32oajdeuHCZ/IV2Pwy8FDwH4KttJd1luiTLcyJ0Zz1A9h0rrqdrrUzuzyTxF+zr4Q1bSUt9LFxpt3EuEuVffu/3wetfPnjf4UeK/AUjPfWhu7AH5b21BZMf7Q6r+Nfb1NkijmjaOVFdGGGVhkEfSiwXPzue6aRYwx6UyaTcwNfXHjj9nfwz4meW80XOi37ZOYRmF2/2k7fhivCdW+A/wAQLDU2tYNEa9QHC3FvKpRh68kEUDucZ4esW1LXbW1+6Z5VjBPua+tZfDujWdlbw/YLZzbRBFdowSMDrmvDNL/Z++JDXEc8drb2MiEMry3YBU+vyg13cPwR+Jt/EY9V8bxwIwwVVnk4/SgadjqNJb7AZLe2IntlG/5CMxk9vcVm+JrrQrmS3XWo1co2+JJJNoz6471X0v8AZouLZSt542vwrfeFqm3P5k1uQfs2eE2ZW1XUNX1Jl6GW52/yFFtLBzDn8Q6ZpNt9uu7+3Ro0yqiUfLx/OvljUtRW51y+vYgF+03Dygk9ixIr7Cs/gV8P7TG7Qxc4/wCfmZ5P5muhsfh94R03H2Lw7p0WOmIFP86YmzyX9mTQpxp+qeIbtGHnsIICw6gckivfKjgt4baERW0SRRr0SNQoH4CpKCQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5Txf4UTV4Td2ahLxBngffH+NdXRQB4tZ3jwym3uso6HBzXceGtaCTx2kj5SY4TJ6Gl8X+B110fadPdbe7HXsHrC8KeAtWstaivtUmAWF8qpbJP0qNUyj02kZQ6lWAIPBB70tFWScxefD7Qb2+Fy9sUbOSqHCmuhtbSGytUt7WMRxRjCqO1TUUrAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACmTQx3ELRTxrJG4wyuMgj6U+igDyLxn8D7S88y+8Iutjcn5mtHP7pz7f3T+leHXWk6poeuXVnrFlLaTqwO2RcbhjqD0I9xX2dWT4j0bTtZ0aeDVLSO5jCMy7xypx1BHIP0pMpM+HdWv0k1CX2OKx5p1bOAOa9L8OeFNF1bxJcwahZ+dEs7KF8514z7EV7voXwa+H62qynw1byP6yySSfozGlYGfLngfxXa+HvGFpqeqRO1vb7jthALbsYB5NesP8cbC5JXStK1K9k/hVYh/QmveLLwL4U07H2Lw3pUJHQpZx5/PGa3IbaCBNkMMcajoEUAVQXPl7TvFnj/Umcf8ACvr68jJPk77aRAvPdmGD+laOoaZ8afElskEHh+PSYg2Q7XEYOPQ5Y/yr6VooDmZ86W/wt+MN9aJb3ev6ZYxAY+RyzfmE/rXo/wAJ/he3w7tL+W/1EalqWoOGmnCFQAOwyST9a9EooFdhRRRQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)
* Relais vs. SSR
  + Een relais maakt gebruik van mechanische contacten waardoor hier bewegende delen zijn en vonken kunnen ontstaan. Bij een ssr is dit een logische schakeling waardoor hier geen vonken of bewegende delen zijn. Hierdoor is de levensduur van de ssr langer dan een relais.
* SSR vs. Mosfet
  + Bij een mosfet moet er nog een extra weerstand worden geplaats voor de aansturing hiervan, dit is niet nodig bij een ssr.
* Besluit
  + We kiezen voor een SSR
    - Dit doordat deze geen bewegende delen heeft en een relais wel. Ook moet hier minder extra componenten worden toegevoegd om deze aan te sturen.

### ADS1115 16-bit ADC I2C Module - 4 kanaalsI2C ADC Module

Om de analoge waarde van de stroom sensoren in te lezen gaan we gebruik maken van de ADS1115 16-bit I2C module. Deze heeft de mogelijkheid om 4 ingang kanalen aan te sluiten. De module communiceert via I2C met de MKR WAN 1300.

Gebruik ADS1115 met MKR WAN1300.

* We maken gebruik van de ADS1X15 library
* Met volgende code kunnen we de analoge waarde op A0 van de ADS1115 uitlezen.
* Afbeelding met tekst, schermopname, Lettertype

  Automatisch gegenereerde beschrijving

### OTRONIC® NEO-7M Gps Module Met AntenneGPS

De GPS wordt gebruikt om de huidige locatie op te halen en deze mee te sturen over LoRaWan. We gebruiken de NEO-6M module. De GPS module communiceert met de MKR WAN 1300 via seriële communicatie. De GPS verijst 3.3V om te werken. Voor het aanroepen van de GPS gebruiken we in onze software hardware serial.

Gebruik GPS.

* We maken gebruik van de TinyGPSPlus library
* File -> Examples -> TinyGPSPlus -> FullExample
  + Hiermee kan je testen of de GPS werkt. Hij laat alle informatie zien die er mogelijk is in dit voorbeeld.

### Afbeelding met tekst, schermopname, elektronica, ontwerp Automatisch gegenereerde beschrijvingSolar Charge Controller

Om de schakeling van stroom te blijven voorzien op een externe locatie hebben we gekozen voor de “Victron Energy Blue-Solar PWM laadregelaar”. Deze zal ervoor zorgen dat de batterij wordt opgeladen aan de hand van het zonnepaneel. En dat de PCB voorzien wordt van 12V. Deze laadregelaar is in het huidige prototype nog niet aanwezig.

### Batterij

We zijn opzoek gegaan naar een batterij die zoveel mogelijk ampère-uur levert en in de behuizing past. We hebben er 1 gekozen die 12V en 50Ah levert. De schakeling zal dus gevoed worden door een externe batterij. Deze wordt aangesloten op de laadregelaar en kan hierdoor worden geladen en de schakeling voeden.

## Theoretische Stroom analyse

TEMT6000X01 x4 20mA x 6V  
AQY211EHAZ x3 1A x 5V  
ACS712ELCTR-05B-T x3 13mA x 5V  
INA219 10mA x 5V  
L7805CV 6mA x 5V  
Lampen x3 2A x 12V  
ADS1115 10mA x 5V  
NEO-7M 67mA x 5V  
BCR411UW6-7 x3 150mA x 5V

Totaal = 9662mA

9662 \* 24h = 231.888mAh = 231,888Ah/ 3 = 77.3Ah

Er kan theoretisch maximum 9,662A door het bordje vloeien, als je dit 24 uur wilt laten branden heb je een batterij van 231,888Ah of drie batterijen van 77,3Ah. De kans dat er 9,662A door het bordje vloeit is vrij klein, dus moet je niet naar een batterij zoeken die voor 24 uur lang deze stroom aan kan.

## PCB ontwerp prototype

Hieronder vindt u de pcb’s die we hebben gebruikt om het prototype te verwezenlijken. De pcb’s zijn gemaakt door De Wilde Géröme van groep POA1.

### Hoofd PCB

* Componenten
  + MKR WAN 1300 connector
  + ADS1115
  + GPS connector
  + 3x connector sturing armaturen
  + 4x licht sensor connector
  + Voeding connector
* Schema
  + Afbeelding met tekst, diagram, schermopname, kaart

    Automatisch gegenereerde beschrijving
* PCB
  + Afbeelding met tekst, schermopname, lijn, stroomkring

    Automatisch gegenereerde beschrijving
* 3D
  + Afbeelding met tekst, Elektronische engineering, elektronica, Elektronisch onderdeel

    Automatisch gegenereerde beschrijving

### Aansturing armatuur PCB

* Componenten
  + Mosfet
  + Led driver
  + ACS712
  + Connector voor armatuur (plus, min)
* Schema
  + Afbeelding met tekst, diagram, schermopname, kaart

    Automatisch gegenereerde beschrijving
* PCB
  + Afbeelding met tekst, stroomkring, schermopname, Elektronische engineering

    Automatisch gegenereerde beschrijving
* 3D
  + Afbeelding met Elektronische engineering, stroomkring, Elektronisch onderdeel, elektronica

    Automatisch gegenereerde beschrijving

### Licht sensor PCB

* Componenten
  + TEMT6000
* Schema
  + Afbeelding met tekst, diagram, Lettertype, schermopname

    Automatisch gegenereerde beschrijving
* PCB
  + Afbeelding met cirkel, schermopname, diagram, Graphics

    Automatisch gegenereerde beschrijving
* 3D
  + Afbeelding met schermopname, cirkel, ontwerp

    Automatisch gegenereerde beschrijving

## PCB ontwerp theoretisch

### Hoofd PCB

* Componenten
  + MKR WAN 1300 connector
  + ADS1115
  + GPS connector
  + 4x licht sensor connector
  + Voeding connector
  + 3x Mosfet
  + 3x ACS712
  + 3x lamp connector
  + INA219
  + L7805CV
* Schema
  + Afbeelding met tekst, diagram, Plan, schermopname

    Automatisch gegenereerde beschrijving
* PCB
  + Afbeelding met tekst, stroomkring, kaart, schermopname

    Automatisch gegenereerde beschrijving
* 3D
  + Afbeelding met stroomkring, Elektronische engineering, elektronica, Elektronisch onderdeel

    Automatisch gegenereerde beschrijving

### Licht sensor PCB

* Componenten
  + TEMT6000
* Schema
  + Afbeelding met tekst, diagram, schermopname, nummer

    Automatisch gegenereerde beschrijving
* PCB
  + Afbeelding met tekst, schermopname, cirkel, Lettertype

    Automatisch gegenereerde beschrijving
* 3D
  + Afbeelding met tekst, elektronica, Elektronische engineering, Elektronisch onderdeel

    Automatisch gegenereerde beschrijving

# Software

## LoRaWan communicatie

### LoRaWan

* Wat is LoRaWan
  + LoRaWan is een protocol dat is ontworpen voor weinig verbruik en een groot bereik. LoRa staat voor “Long Range Radio” en is bedoeld voor IoT devices. Het kan draadloos communiceren met batterij gestuurde “things”. Het wordt meestal gebruikt in toepassingen van IoT, het kan in beide richtingen communiceren
  + Afbeelding met tekst, diagram, schermopname, lijn

    Automatisch gegenereerde beschrijving
* The things network
  + Voor ons project op te bouwen gaan we gebruik maken van “the things network”. Deze organisatie heeft een aantal gateways geplaatst die openbaar gebruikt kunnen worden na registratie. Ze hebben ook een “heatmap” waarop er gezien kan worden waar de gateways zijn en/of er verbinding is op bepaalde plaatsen.
    - Aanmaken van een application. In één application kunnen er verschillende devices worden toegevoegd en beheerd worden.
    - Aanmaken van een device. Dit is nodig om onze microcontroller toegang te geven tot de gateways van “the things network”.
* Data analyse
  + Voor het verzenden van data over het LoRaWan netwerk is het de bedoeling dat deze berichten zo klein mogelijk zijn. In de code van het project stuur je zogezegd een string door, maar deze wordt geconverteerd naar bytes. Hierdoor moeten we aan de kant van ttn een payload formatter toevoegen die dit terug omzet. Ook hoe groter de string die we versturen hoe langer de “uplink” tijd zal zijn. Hierdoor hebben wij volgende keuzes gemaakt.
  + Berichten opdelen in 3 modes vanaf de microcontroller.
    - Mode 0 = Startup/power on
      * Hierbij weten we aan de ontvangende kant dat de microcontroller is opgestart en klaar voor gebruik.
    - Mode 1 = Data
      * Bevat of de lampen aan of uit zijn
      * Bevat de huidige spanning waarde van de batterij
      * Bevat de status code
    - Mode 2 = GPS
      * De locatie waar de baken zich bevindt moet maar 1 keer worden doorgestuurd. Hierdoor is dit een aparte modus, dan kan er geen “overload” ontstaan.
  + Om de berichten te herkennen aan de ontvangende kant zal er altijd een 0-1-2 worden meegestuurd om aan te tonen wat voor bericht het is. De identiefier van de microcontroller moet niet mee worden gestuurd omdat die standaard in het bericht zit dat wordt ontvangen.
  + Voorbeeld berichten
    - 0:0
    - 1:L1:L2:L3:Bat:status
    - 2:Lat:Lon
* Klassen analyse
  + Binnen LoRaWan bestaan er verschillende klassen. Elke klassen heeft verschillende voordelen en nadelen, we overlopen de 3 klassen hieronder.
    - Klasse A
      * Enkel de end devices kunnen berichten initeren over het netwerk. Nadat een end device een uplink bericht heeft verzonden, worden er 2 recieve windows geopend waarop het end device data kan ontvangen.
      * Afbeelding met tekst, schermopname, Rechthoek, diagram

        Automatisch gegenereerde beschrijving
    - Klasse B
      * Klasse B heeft dezelfde functionaliteiten als klasse A. Ook is het mogelijk om bij klasse B beacons in te stellen via de gateway. Deze gateway zal dan om de zoveel tijd een signaal sturen naar het end device, waarop het end device een recieve window opent.
      * Afbeelding met tekst, software, nummer, schermopname

        Automatisch gegenereerde beschrijving
    - Klasse C
      * Klasse C is een verdere versie van klasse A doordat de recieve windows open blijven. Hierdoor is het mogelijk om naar het end device te sturen zonder dat deze eerst een uplink moet sturen.
      * Afbeelding met tekst, schermopname, diagram, Rechthoek

        Automatisch gegenereerde beschrijving
  + Vergelijking van de klasse
    - Klasse B
      * Deze klassen wordt niet ondersteund door de MKR WAN 1300. We kunnen deze niet gebruiken.
    - Klasse A vs. C
      * Klasse C laat ons toe om berichten te sturen vanuit node-red, zonder dat de microcontroller eerst een uplink moet sturen. Het nadeel hiervan is dat klasse C een hoger stroom verbruik heeft dan klasse A
      * Verbruik
        + Klasse A = 25 mA
        + Klasse C = 36 mA

### Verbinding LoRaWan

In dit gedeelte gaan we verbinden opzetten tussen de arduino MKR WAN 1300 en de “the things network” gateways.

* Aanmaken device
  + Ga naar applications op de website van ttn
  + Klik op “end devices” en /of “register end device”
  + Vul de volgende instellingen in:  
    ![Afbeelding met tekst, schermopname, brief

    Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2MAAAkpIAAgAAAAM2MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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nLb0/NC6B4j1HVfEGo6beaZawpp6qst1a3rTp5rc+V80SchcE4zjIHXpc8U61/wAI94au9SBiV4wqxmc4jDswVSxyPlBYE89M1g6Xb654S8GT28ltpFu9vbvIt5Lfyz+fcsclpF8lCdzEngk5wADW1f6bP4j8Hpa3+LO9mhilYquRDOpVxxnkBwOM9O9J7af1/X+QlvqU/Dl8Z9UkgfxFeahIsO+S2vtPFseuBJF+7QmPqP4xyvzDvZvdfvG1yXSdB06K+ubaJZbp7i5MEUQbOxdwRyWOCcYwAOTyBUen6Zq9z4kh1jXksbdrW0e2hhs5Xl3l2VndmZFwPkUBcHqeTSXGlavp/ia71bQks7pNQhjS4trud4drx5Curqj5ypwVwOgOe1D2QLqZQvNUHxGu3sdJWS6l0W2Z4ri5WJIT5kuVZ1DnPJA2qw46jrWpH4pnu/C1trFlYwIsis1wb69EENrsJDhpNrE/MCAQuDjJIqxYaTfR+K59YvWt8T6fDbMkTMcSI7sxGR935xjnNYUHg/VLG20N0i07UJtMluXNtczukW6SQskqsI2+dRxyv8RwR3XRL1/Njesm/T8kWofHyXWi6de2dgl5LeakdOaK2u0dFcBzuWTADr8oOeDhumeKmbxfc2lnr/8AammRQ3ui2wumhgujLHNGyMykOUUg5RgQV4xnnNVLbwjqifZ2urmzkkTX21SRowyqYyjLtAOfmy3TOPftVnV/C17f3HiiSGW3UaxpkdnBvZvldRKCW44H7wdM9+KH8DfX/gL9bjjbmV9v+C/0LFt4mvP7W0+31TSksrfUone2lF0JHUqoYrIoUBTtycqzDjrUdt4tuLiO01H+zFXRL2ZIYLr7T++O9tqO0W3ARmxjDlsMpKjnFi80Ge61HQJt8XlacJBOCxywaIp8vHqe+KxNE8CR6JNa2q+HPDl1BayDy9TkjC3WwHKkp5RBccDdvGSM4HSq05rdCFflv1I9J13+wdD1GVYY5ZbnxHc20Qnm8mIM0rcvJg7RgHscnAxzXY2M+oTWLtf2MVrdqWAiS48yN/Qh9oOD7qCOeDwTgW+havY6dqdolrpOoQ3moz3Bgu5HCTQykttb5GCkE+jggds8X/CWhzaBpc8E/kxCa5eeO0t3Z4bRWxiOMkA7eCegGWOABSXw28l+SKl8Ta7v82cj4Q1J9J0GXUrnSLOXWNW1Oe2geK4zLdyedJ8sjtGNqIEPPzfKvABwtdJP4tn0601ddW02OC/02yN8IYbkyRzxYPKyFFOcqQcrxkdc1Ug8IX9v4esY4p7f+09N1Ke/tiWbyn3ySHYxxkApIQSAcHnDYwXX/hjVNag1q71H7Fb6hfaY2nWsMMrSRwqcks0hRSSWI/h4CjrSd0tP600/EenN8/11/A6LS7u9vYWnvLOK1icBoAs/mOykZ+cbQFPsCw965+PxtO2ijV5NKVbSR/s9uguszT3Bk8tUVdu0KT/EWBHPy45rqbSJoLKCFyC0caqSOmQMVy0XhC6Hgi30p7mKO/tLs3lvMu5oxIJjIgYcEqc4I9zinLSWmxEb213NC01+9XVDpms6ZHb3r27XNutpc+ck6qQGUMyx4cFl4Ixgg564q6d4wafxUug6lDp8F3JE7rHaakLiSMrglJU2KUOGyMbhweemYrvw5q+vXE95q8lrp1wunz2dmtlM83ltKBulLlUOflACgcc888R6X4b1WHU9BmmtdJ06z0mOaP7LYyO+7emNwYooHPVce+45xQvP+t/+B/Vwe2n9bf8AB/qxH/wnt8NJttXbw8zafNdfZDsvFM28yGNSqEBSpbaMs6kZPGBkv1jXjPo3iPTfEujxbrPTjdSW9vesyXELBxjzNiMpyhB47jBNOXwlfjwTZ6P5tv8AaINQjumbc2wot15pAOM528dOv51Lrvhe91O916a3lt1XUtHFhCHZgVkBkOWwOF+cdMnrxUu/J56/l/mXG3N935/5Ei69dQ6nDoWiaOkzppsN0jz3hjjRSxXYzbWbOF4IDZ7460yDxnLfaZpLafpgfUdSkliFrPcbI4WhJEu6QK2QCpAIU544HOLljodzbeKv7TkeIw/2XDZ7VJ3b0dmJ6Yxhh3z7Vyt3oNzaR6DoUhguL37bfX0ca3storKWcgidF3qwEw+UDB+bJwOdJf197/QhLT7vy/zOt8Ma3fa3b3j6jp0Ng9rdPbbIrozbmQ4JyUXjoRjPXnB4rmtYuZj4I8Ya9BLJBduZ4IJo2KvFHATGoVhgj5g7fVzW54RvVDX+jDTreyfTJFV/st01zG7ON5zIyqxkyctuGfmBJOazZtJn1Dw14o8K28kcd3JJNJB5zEKY5yZFY4ycbi69P4TS0/D/AC/r7yo+ff8ADX/gEuo28vhS60q+029vZLW5vIrS8try8luVZZDtV1MjMVYMR0IBBORwMXrHxHqWp/bJLDRVkhs7me1fN4FeR43KjYpXGDgElmXHOA2OWNpOs61qFg+vJZWdnp8y3CW9ncPObiUAhSzMibVXOcAHJxyMc1pfCN7L4R1vSjNAJb+/muo/mbYyPLvEbkDIDAbWxngnrS738/0/4LEtl8v1v+gtj4xm1G81TSkj0ttTtLYzItnqfnx5BKsrt5YaNgccFT1+tcj4Yl1rT7HwgdO0jTIn1JGmmlXUJEa+byGYtPiDrzu5L8/nXZWOgap/by6hdQ6bZW8emPYxWdm7MIfnUrhiqgrgdAq46c9arweF9W0/RPCq2Zsp77Qo/LkilmeOKUGIxthwhIwcEfLz7ULRX9Pzf6WE9Xb+tl/wTT0hvsfizV9MUbYpI4r9EB4RpC6yAexaPd06sx71v1z+jA33irVtUwAiRQ2ClTlWeMu0m045AaTbnjlWGOK6Cn2/r+tB9X/Xr+NwooopAFFFFABRRRQAUUUUAFFFFABUCf8AIRm/65R/zep6gT/kIzf9co/5vQA+eZbeB5XBKqMkKMmi3uI7qESQtuU/pUhAIIIyD1FZFxpEyzN9gm8qKbiRfT6UAX4L6G5uJIYSWMfVgPlP40t9/wAg65/65N/I0traxWcAihGB3Pcn1NJff8g65/65N/I0AT0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAECf8hGb/AK5R/wA3qeoJI5Fn86DaxZQrK5wCBnHOD6mjfd/88If+/wAf/iaAJ6Kg33f/ADwh/wC/x/8AiaN93/zwh/7/AB/+JoAnoqDfd/8APCH/AL/H/wCJo33f/PCH/v8AH/4mgBz20ElzFcSQRtPCGEcrICyBsbgD1GcDPripag33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6Kg33f/PCH/v8f/iaN93/AM8If+/x/wDiaAJ6q6jpen6vbi31axtr6EMHEdzCsihvXDAjPJ596fvu/wDnhD/3+P8A8TRvu/8AnhD/AN/j/wDE0AFlY2mm2iWunWsNpbx52QwRhEXJycKOBySanqDfd/8APCH/AL/H/wCJo33f/PCH/v8AH/4mgCeioN93/wA8If8Av8f/AImjfd/88If+/wAf/iaAJ6Kg33f/ADwh/wC/x/8AiaN93/zwh/7/AB/+JoAnoqDfd/8APCH/AL/H/wCJo33f/PCH/v8AH/4mgCeioN93/wA8If8Av8f/AImjfd/88If+/wAf/iaAJ6Kg33f/ADwh/wC/x/8AiaN93/zwh/7/AB/+JoAnoqDfd/8APCH/AL/H/wCJo33f/PCH/v8AH/4mgCeioN93/wA8If8Av8f/AImjfd/88If+/wAf/iaAJ6Kg33f/ADwh/wC/x/8AiaN93/zwh/7/AB/+JoAnpoRRIXA+ZgAT7DOP5mot93/zwh/7/H/4mjfd/wDPCH/v8f8A4mgCeioN93/zwh/7/H/4mjfd/wDPCH/v8f8A4mgCeoL7/kHXP/XJv5Gjfd/88If+/wAf/iabIlzPG0UiRRo4wxDljjv2FAFmiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)
  + Bij “JoinEUI” kan je de waarden invullen die de seriële monitor print bij het uploaden van de voorbeeld code. Deze code is te vinden op volgende locatie: File -> Examples -> MKR WAN -> FirstConfiguration.
  + Hierna kan je alle andere keys automatisch genereren
* Connecteren
  + Upload het voorbeeldprogramma in de MKR WAN 1300. File -> Examples -> MKR WAN -> LoraSendAndRecieve.
  + Pas in het programma volgende details aan naar je eigen waarden. De waarden kan je vinden op de website van ttn onder je geregistreerde device.
    - devAddr
    - nwkSkey
    - appSkey
  + Hierna zal er op de seriële monitor verschijnen of deze verbinding kan maken.
* Payload formateren
  + Doordat de data die wordt verstuurd over LoRaWan zo klein mogelijk moet zijn is deze gecodeerd. We kunnen instellen hoe deze data gedecodeerd moet worden.
    - Ga naar “End devices” en selecteer het juiste device
    - Ga naar “Payload formatters”
    - Kies bij “Formatter type”: Custom javascript formatter
    - Vul de volgende code in en druk op “save changes”  
      Afbeelding met tekst, schermopname, Lettertype, nummer

      Automatisch gegenereerde beschrijving
    - Hierdoor krijg je bij “live data” het volgende:  
      

### Node-red applicatie

* Om onze data te visualiseren/zenden gaan we gebruik maken van node-red met een mqtt server. Het installeren van dit programma kan je via de website van node red doen. Om de applicatie op te starten moet je een cmd openen en “node-red” typen. Hierna zal de applicatie beschikbaar zijn in je browser op het ip “[http://127.0.0.1:1880](http://127.0.0.1:1880/)”.
* Data toevoegen in een database
  + Nieuwe data aanmaken als er nog niks bestaat
    - Bij het opstarten van een baken voor de eerste keer, zal er nog geen data bestaan in de database. Bij het opstarten zend de baken altijd een bericht uit waardoor we deze kunnen toevoegen aan de database.
    - 
    - In bovenstaande lijn code zal er in de SQL database worden gekeken of er al een id bestaat. Als dit bestaat wordt deze geüpdatet. Ook wordt de huidige tijd geüpdatet. Als er nog geen data bestaan zal er een nieuw worden aangemaakt
  + Data updaten in de database
    - Data wordt gestuurd op een bepaald interval en hierop moet de database ook worden geüpdatet.
    - Afbeelding met tekst, Lettertype, lijn, schermopname

      Automatisch gegenereerde beschrijving
    - In bovenstaande lijn code zal er in de SQL database een lijn worden geüpdatet waar het id = id.
  + GPS updaten in de database
    - 
    - De locatie zal worden geüpdatet waar het id = id.
  + ![Afbeelding met tekst, gereedschap

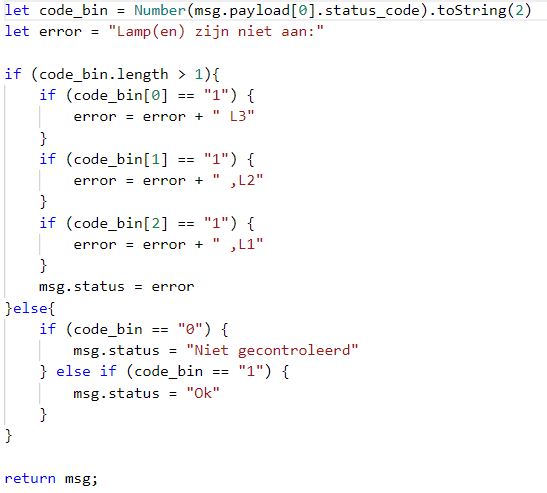
    Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2MAAAkpIAAgAAAAM2MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Data ophalen vanuit een database
  + Drop down menu aanmaken uit een database.
    - Doordat we enkel de id’s willen kunnen kiezen van de baken gaan we deze in een list plaatsen.
      * ![Afbeelding met tekst, Lettertype, lijn, ontvangst

        Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMyMgAAkpIAAgAAAAMyMgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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      * We maken een variabele waarin we alle id’s toevoegen doordat we door de data loopen en elke keer het id eruit halen. Hierna voegen we de id’s toe aan de options key van het msg object.
    - Het drop down menu geeft het gekozen id weer in “msg.payload”. Hiermee kunnen we de aanvullende data uit de database ophalen.
      * 
      * We selecteren de correcte rui uit de database waarin het id overeenkomt met het gekozen id.
    - Als we de data uit de database hebben opgehaald kunnen we deze ook printen in het “debug” venster.
      * “msg.payload[0].id”
      * “msg.payload[0].lat”

### Node-red status codes

Om aan te geven of de baken correct werkt en of er verbinding is geweest zullen we gebruik maken van status codes.

Doordat we 3 armaturen hebben kunnen we per situatie een ander getal doorsturen. Maar als we gebruik maken van een binaire code die de armaturen apart voorstellen gaat dit met minder dan één byte. Hierdoor versturen we ook minder data over het LoRaWan netwerk.

* 4 bits: 0000
  + De eerste 3 bits gebruiken we om de status van de lampen door te geven
    - Als één van deze bits hoog is dan wilt dit zeggen dat dit armatuur niet aan is.
  + De laatste bit gebruiken we om aan te geven of er al een controle is uitgevoerd of niet.
    - Als dit 0 is dan is er nog geen controle uitgevoerd
    - Als dit 1 is dan is er een controle uitgevoerd
  + Voorbeeld:
    - 0000 = Er is nog geen controle uitgevoerd op de baken
    - 1001 = De eerste lamp brandt niet en er is een controle uitgevoerd
* Node-red
  + We krijgen via LoRaWan nog steeds een int doorgestuurd. Deze kunnen we omzetten naar een binair getal waaruit we onze data kunnen halen
  + 

### Data µC -> Node-red

* Data versturen vanaf de microcontroller naar de node-red applicatie. De data die wordt ontvangen zal hiervoor moeten worden doorgestuurd worden naar de node-red applicatie. Dit gebeurd via een mqtt server, om deze in te stellen moet je de juiste server configureren in het mqtt blok. Als dit correct gebeurd is zal er “connected” staan onderaan de blok.  
  ![Afbeelding met tekst, Post-it-briefje

  Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Schema verduidelijking
  + De paarse blok is de ontvangen “mqtt in”
  + De groene blokken laten data zien in het “debug” venster
  + De gele blok zet data om naar een JavaScript Object als dit het geval nog niet was
  + De licht gele blok kan functies uitvoeren. Deze gebruiken we om de data te filteren
*  Afbeelding met tekst, Lettertype, schermopname, algebra

  Automatisch gegenereerde beschrijving Afbeelding met tekst, schermopname, Lettertype

  Automatisch gegenereerde beschrijving

### Data Node red -> µC

* Data versturen vanaf node-red naar de microcontroller.
* ![Afbeelding met tekst

  Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5MAAAkpIAAgAAAAM5MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Schema verduidelijking
  + De paarse blok is de zender “mqtt out”
  + De groene blok laat data zien in het “debug” venster
  + De gele blok zet data om naar een downlink Object
  + De blauwe knoppen zijn knoppen waarop gedrukt kan worden om een actie uit te voeren.
* ![Afbeelding met tekst, Lettertype

  Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIExhaGV5AAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5MAAAkpIAAgAAAAM5MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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DREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APdz4ngW4aP7DebVkKGXam3Ak8tm+9nAbHbPPAPOEi8UW06OYLa4ldJTH5SNEX4BJJXf8uAp4bDe1XzpNkQwMP3t2fnb+J957/3uaoah4aiuYT9juJYJi4ZpZpZZSRhhtzvDAfMeAwHqDUPmtoar2bepZuNajhtLSeO1ubg3a7o44gu7G3dzlgBx71WbxVZLdyQCOVykBn3I8Z3JgNnbv3Dg55Az27VLL4ft5obOGSWby7YYIWV0LYTZwVYbeOoHBqT+wrSKR5rNPKnKsELu7xoWGDiPcFwe4GM1Tvd2EuSyuVm8SIb5ooIJJ0yY4ljA3SyBiDtJYDA2tycfdPtRJ4qsIri2jlWRBcR7wzNGCuAcgpu38bSCQpHvU8Ph3T4tPt7UxsfIjWNZFkZHGDnIKkEHJPI9TTh4e0wSRuLdh5YUBBK+zgYBK52k44yRnFLWw70w0zVJdQkuvMtJLcQldkcm3eQVzzhiP1+tOvbq6861trIRwz3Cs5edS4jC4yNqsMnkDqB1PPQy2Wl2unxyJarIPNxvLzO7HAwOWJPSnXWnW95DHHOrkRnKOsrI6nGMhwQw44PPNNk3VzJi8QzxXZgvLUusQKzSwAbUIfbvO5shTwcDJHPXGaQeMNOjultrmTa/O58ooXk4GzeXPA6gEc9u15tA08+UVhZWhGExK4B+bd84DfP83J3ZyetNtNBtoFjaZpJJgMSFJXjjkJJJzGG2kckc54wKXvWRV6eo2DW5J7u0h/s26hFwWyZtg2AKGB4Y5Bz2yRg5Fa1ULbRLG0aNoI5A0bblZp3Y/d24yScjHY8e1X6oiVugUUUUEhRRRQAUUUUAFFFFABRRRQAUUUUAFFMljMsLxh2jLKQHQ8r7j3rnbbR9ettO1L7Rq8l5cSROloAQoXjhs44b9B70AdBc3UNpEslw+xWdYwcE5ZmCqOPcilnnW2haWQSFVxkRxs7dcfdUEmuNm0KQqDF4flSwmmi87T45IQ7iNXJd/nCksxQH5iSF564qQWVgItL0o/ZJdUt7tZDbxOGayTzPNYAD7oAAXOBkEDuBQt7AdlUV1dQ2VrJcXL7IoxlmwTj8BzXJf2FfPqWpXrw3f9o7Z/styWgEXOQiqw/ej5SOG+UHJ9DVm60K0n8PCO38MLGVuYpHtZEgMkoVhubduKkldwyzZOTnrQHU6mioLKGG3sYora1WzjC8W6qqiPPOMLx+XFT0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVhf8JHN/wkX9kf2Tc+ZnPm5GzZn7+fT/8AV1o62A3aK4q48R30eorevcWptxbXbRWabgRskRA0jFsHnJ+6NuSMnrV2XxFqGmXElvqAtb14227rWNo95ZQyrtLNg8Nnk5GDx0q+R2LcWdRRXIp4l1WeZp4PsP2KKSHcPLdnlSWdoxtbdhcKAc4OSeg61qWMcser61DbXEmT5bx/aJHmWN2UnhS3C5x8qkD0xScWlqLlNqiuWtL/AFNdF0e3sZLcXN1JJE81yJZlUIHJIBk3NnbjBfjPXjFVbDxHf3euWkKhInv7K2kLykmCNv3hdVGQS7AcDjhSSTtwXyN7Byu1zs6KxdM1K/l1O7tdU8qCVQzwQfZ2H7sNgP5u9lcHjjCkZ5AyKv6TcTXWj2k91LazTSRKzyWbFoXJHJQnkr6VLVhNWdi3RXO6jrl5HqvkWclnFGl3DaFJ0ZnmdwrNtIYbdqNno2TnpjmH+2dbGjXOrbbFrcLKLeEI4diH2xEndghu4wOoOe1LpcXU6iiuavdV1fTlMV7cabE/lSXJufKfy44kC5UoXBLbmAB3AY5xninWuu38t1DYyx25vZYrabCKdoRgfNb73QbSAfVlHNG4HR0Vi6fHLcPqOoR3TiWSaSKDzHd4o1TCf6vcF+8pORg89apme5ufh6bm7nuJLiaAvFIj+VISx/dcx7cHlRx1o6B1sdNRTYk8qFE3M21QMsck49T3p1ABRRRQAUUUUAFFFFABRRRQBVTS7CK4mnjsbZJp8mWRYVDSZ4O445/GmwaRptrbxQW2nWkMMMhkjjjgVVR8EbgAODgkZ9zVp5EiQtIyoo6ljgVSvdYtrSFGjzdyySCOKC3ZS8jEE4GSAOFY8kDANO7eg9WTR6dYxQiKKzt0jCooRYlAAQ5UYx0B6elV18P6Mk88yaRYLLcqyzyC2QNKG+8GOPmB7561HZ+I9OvbOwuElKC/laCFGG4mRQxZSVyONjc5xxwTxWo7rHGzyMERQSzMcAAdyabbV7ju07FSz0bTNOULp+nWlqquXAggVAGIwTwOuOM+lOOmWBj8s2VsUwg2mJcYQ5TjH8J5HoelZt14r0+Gxa5hMkmyWKNkeGSNiJGwGUFcsMZI2g7sYFSz+I7NbSCW2bzHuXCRLJHIg3bwmHIQmP5jj5gOeKV22Tdly00nTrCSeSwsLW2e4OZmhhVDKeeWIHPU9fU1PBBDa28cFrEkMMahUjjUKqAdAAOAKqnWbEagLIzN5xJGfKbZkDJXfjbuABOM5qndeKLKHR7i/tYrq5WIfu9trKFmJB27W2YKnH3hkcj1FK9x6t6midNsWvTeNZ25uiADOYl34HT5sZqT7Lb/AGdbfyIvJXG2PYNowcjA6cECktLpLy1SeJZVVugliaNh25VgCPxFTUC3K91p9lfNG17aQXJiJMZmiV9hPXGRxTLXT0triWdpZJ5ZPlDSBRsQEkIoUABRk+/qTxVuigDOttEtotNewvCdRtmcv5d5HGwGTnGAoBGeecn3pJdCtWhtre1LWNpbyiX7NaoiRyEMGG4bc4yM8EZ71pUUAFFFFABRRRQAUUUUAFFFFABRRRQBDd2kF9ayW13GssMg2ujdCK56bwNpw0aOysQiPHOJxJcoZVkOCpEigruUqzDbkDnvznp6KabTuhptaoyrPSbmxtbOG3vwnlzvNdbbdQLjduJUDPyDcwIwSQFAyeTVzUbMahplzZs5QXETRlgM4yMdO9War3Go2VpcwW91eQQz3BKwxSSqrSn0UE5PUdKNZMNb3Mebw/fy3Ed6dStvtyyKxZrMmLaquFUJ5mRguzZ3Hn24oWwuFFppcVtcC3t7hbia9laPbMQS5wFbdkuQcFQOvtnoKKQjn4PCyQ3GoMTZ7bxZh5yWe25XzCScy7vmAzgDaOg9Ktyabf3OjNaXV9bmcOjRyxWpVAEZWAZC5zkrzgjg9q1aZFLHNHvhkWRMkbkORkHBH5gigPMIRKsCC4dJJQPnZEKqT6gEnH0yafRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWDHpt2PHE94b+8+zfZY8RmOPyj8z5TOzdxwfvZ55OMCt6mTQx3EDw3EaSxSKVeN1DKynggg9RTTsNPRruZHiydrfQt6zXEINzArtahjJtMqhgoUFiSCRwM1z8y3v2PE39ui2KTHTvJM3nB93yeaQc9MEeb8uD83NdRa+G9DsZfNstG0+3k4+eG1RDwQRyB6gH6gVpVakoqyL5ktEc7Y6VcXmo3txqV1qMbx3AEaJcvHGUMCBgFBAI3FjnqCOCKqaHZw2Gh6raqutLcRicSfPcMxG9ypgMhKliCDlO+M811tFS5Nx5SVJkNl/wAeFv8A67/VL/r/APWdP4v9r1965i5S2HxAl2Wt6HuNOkgluhZTvHuJRlXzNu3AAYgA4zkdTz1tFXCpytvvcz5dLen4HKeBLT7DZ3FvDYW0FunlhLiHS309p2Awd0TksSMD5+h3YA4NdXRRRVqOrNzfUIx5VYKKKKyKCiiigAooooAKKKKACiiigAooooAKKKKACsCbXpZPFqaTab4kiQPO0unTuJMk8LIMIgwp+Y5BJwOQa36riyjXUpL0M3mSQrCRkbcKWI/H5jTTsNWszEj8ZQyabHfDSNTEE6Rvbkxx/vt/QD5+D/vY9Rkc1p6NrEOt2TXNvDPCqvt2TqFboGBwCcZDA8888gHimJoNqmi2WmCSbybIRiNsjcdgwM8Y/QVWjstS0YtDolna3UEhDs93fNEwYKFwAsLDGFHOepNX7rbS+RTs/hJR4igOsGw+yXYUT/ZzdFF8rzdm/Z97d93vjGeM54qrp/jPT9RedI4ZVkt5YopVEkMuwyMVUkxyMB8wwRnI9Mc06y8PTNqVxe6ndSESTmdLOKQGFGMQQnOxWY/eHJxyDgHpD/wiz2WmzwWFzJdTXFvHaebeSKnkxJu2lRHGASu8kDjPdh1prktrvp/wR+7r/X9afiXLrVrgtZT2JjW2e9NtMs0RLSDcV3IwYADIPUHPtT4/EEMupfZUtLnymkeGO7wnlSSoCWQfNuBG1hkqBlTz0yl9oAu7Wyt4NSvLKOzKlBbiI7iuNpO9G6Y7Y685pg8MWxuJGe6unt3aSRbQsojSSQEO4wobJ3OcFiAWOAOMT7tvvF7v9fP/AIH4lew8aWGpWsslnbzzTRyrEtvFLBK0jMCQAySFBwrE5YYxz2za03W5rrT7Ga5sZxJd3EkJWKMMINpfBkIJAGExkEjcRjrUCeEoUiH/ABMr83KmMx3RMW+IoGUbQE2fddlOVPB9eauW2hxWltY29vd3iR2czSgedkzbt2VkP8Qy+eecgHNOXJ9kHy9DSbcEbYMtjge9c4+reIrHQJ7+/wBNs2mhRJGh88xADygZMECTJD7gBxx37npKr31nHqGnz2cxZY54zGxQ4IBGOKyafQdOUU/eV0Yl34i1Kxec3Ol2xhsrdLi8aK9ZmRWLZ2AxDfgITyV9KfY+KorrVr62nl0y3hszJv3agDOqoeXaIoNq45zu9KtXvh6K+1B7iS8ukiljSKe1QoI5lUkgMdu7+I5wwyODTrfQ/s890RqN61vdGRmtdyIqFzklWVRID1x83FR79/LX/gG16PLtr8/6vv5B/bMWo2wk8N3VnqJWeNJTFMsgRCfmPDdQMkVb017yTS7V9TjSK8aJTPHH91Hx8wHJ4B9zTbDTYNNR1t3unDnJ+0Xcs5/AyM2Pwq3VrzMZuO0Vp+IUUUUzMKKKKACiiigAooooAKKK42Cwa68ZXs0OnMJYNQVm1FnQBY/s6ZiXkvySMjAXnOcgU0r3KSumzsJJBFE8jBiqKWIVSx49AOSfYURSCaFJEDBXUMA6FTg+oPIPsa5XTfDNrpng2NJdCS5v5LGKG7t0EbNMwA+8WYI209yeAOOwqpcaTe3ukWMd74fkuWjsPs0cEssINrOAB5u4OQBwPmUlxjgc1fIrtXK5Vfc7eqr6lbR2dxdSmSKG3ZhI0kLrjb1IBGWHoRkHtWRpvhyFNVu9Q1G0SW8W5Elvck5fHkohwc8AkMCOM9xWZHoRvfC+saZJ4bFmjyPNZwTrblNxHAUI7BTkdeOvXrQox7iSTO0orkJ7a182wstO09NKmuo5LebT1MSPHbsctJtjYjGVIBz1f1OK3be0EXiK5nTThErWkUYuxNnzArP+78v+HbnOe+7HapcbEtWLd3ewWMKy3Unlo0iRA7Scs7BVHHqSBUMGs6dcWq3Ed5EsbQfaf3jbCsX98hsED3IFWpoIrhAk8SSqGDgOoIDA5B57ggEH2rlfEvh+8uYNROj2yBjpy2sESsqK4PmqyewAdW7DKio1NacYSdpOx0Q1XTjfS2Qv7U3UKb5IPOXei4B3Fc5AwRz7im2us6Xfxq9jqVpco8nlK0M6uGfG7aMHrgE464rnjpWovH9g/s5k8i4uLgXhkTbMJFkwqgNu3fvADuAHynk8UyPw3qLTpFNLIzo6SrqLiMsCIiqqVXaMq2egGQw5PNSpPsX7Onbf+v6+fqdSt/ZsISt3ARO5SLEg/eMM5C+pGDwPQ1J9oiMcjrIrLGSHKnO0jqDjv7VyLaFrSxEWQt4UspJJII5U3tMTOZAFYOAmQqDLA9TwK2NKN3DfXtrc6XcLDNcSSrcl4jEVIHGA+7Pb7tO7ehMqcUrpl/T9Us9VjkewlMqxlQx2MuCyK46gfwup/GrdRW9rb2istrBFCrEEiNAucAKOnoAB9ABUtUYu19AooooEFFFFADfNj/vr+dHmx/31/OnUUAN82P8Avr+dHmx/31/OnUUAN82P++v50ebH/fX86dRQA3zY/wC+v50ebH/fX86dRQA3zY/76/nR5sf99fzp1FADfNj/AL6/nR5sf99fzp1FADfNj/vr+dHmx/31/OnUUAN82P8Avr+dHmx/31/OnUUAN82P++v50ebH/fX86dRQA3zY/wC+v50ebH/fX86dRQA3zY/76/nR5sf99fzp1FADfNj/AL6/nRTqKAP/2Q==)

### Node red dashboard

* Installeren
  + Om gebruik te kunnen maken van het node-red dashboard moeten we deze extensie installeren. Dit doen we door in de command prompt het volgende te typen. “npm install node-red dashboard” Hierna kunnen we gebruik maken van alle opties die in deze extensie zitten.
* Input
  + Om acties uit te voeren kunnen we gebruik maken van verschillende input mogelijk heden. In onze toepassing maken we gebruik van een button en de dropdown.
  + Aan de ingang van een button kan je data meegeven door het msg object hieraan te koppelen.
  + 
  + 
* Output
  + De data dat we terug krijgen vanaf de baken gaan we weergeven met behulp van tekst. In het veld “value format” kunnen we de waarden dat we willen tonen toevoegen.
  + 
  + 
* Dashboard resultaat
  + Het dashboard is te vinden op volgende link. “<http://127.0.0.1:1880/ui>”
  + Afbeelding met tekst, schermopname, software, Multimediasoftware

    Automatisch gegenereerde beschrijving
    - In de dropdown kan je selecteren welke baken je graag zou willen bedienen/uitlezen.
    - Lamp1, Lamp2 en Lamp3 geven de status aan van de lampen. Als er een 0 staat wilt dit zeggen dat die lamp uit is. Als er een 1 staat wilt dat zeggen dat de lamp aan is.
    - Last updated geeft aan wanneer de laatste communicatie is gebeurd tussen de database en de baken.
    - Bat voltage is de spanning van de batterij.
    - Status geeft aan wat er met de baken aan de hand is.
    - Baken aan, Baken uit en Baken automatisch zijn 3 knoppen die elk de corresponderende actie uitvoeren.
    - Capaciteit is op basis van de bat voltage bereken in watt uur.

## Programma

* Node-red
  + Afbeelding met tekst, schermopname, diagram, lijn

    Automatisch gegenereerde beschrijving
  + Link: <https://github.com/LaheyKevin/Slimme_Baken_PoAB/tree/main/LoRaWan/Node-red>
* Arduino
  + Link: <https://github.com/LaheyKevin/Slimme_Baken_PoAB/tree/main/LoRaWan/Programma_Kast>

# Volgende iteratie

In dit gedeelte gaan we bespreken wat er in de volgende iteratie aangepast zou moeten worden en waarom.

* Keuze tussen mosfet of Led driver.
  + Op de huidige PCB is de uitgang van de MKR WAN 1300 verbonden met de mosfet. Deze mosfet schakelt de 5V voor de EN pin van de led driver. In de volgende iteratie gaan we één van deze componenten niet meer nodig hebben omdat er dan een armatuur afgeleverd zal worden.
  + De mosfet zal aanwezig blijven als de armaturen enkel 12V nodig hebben en deze een interne led driver gebruiken.
  + De led driver zal aanwezig blijven als de armaturen geen led driver aanwezig hebben.
* Integratie van de INA219
  + Op de huidige PCB zit een spanning deler met 2 weerstanden die direct na de 12V wordt gemeten. Het probleem hiermee is dat, in een latere versie het systeem gevoegd zal worden door een solar charger waardoor er een stabiele 12V zal binnen komen en het zou lijken dat de batterij altijd volledig is opgeladen. We moeten dus een extra connectie voorzien tussen de solar charger en de batterij om te kunnen meten welke spanning hierover staat. En eventueel welke stroom de schakeling verbruikt.
* Meerdere bakens tegelijktijdig aansturen vanop 1 platform
  + In het huidige programma is het enkel mogelijk om één baken te selecteren en deze aan te doen. Volgende iteratie zouden we graag een lijst van bakens ineens aan/uit schakelen.
* LoRaWan acties
  + In het huidige prototype zal de microcontroller enkel een bericht sturen nadat deze een actie heeft uitgevoerd. Hierdoor kan het zijn dat de baken stuk gaat nadat deze al drie uur aanstaat en hierdoor geen foutmelding genereert.
  + Als we de GPS module kunnen gebruiken om de tijd op te halen kunnen we om de x aantal minuten de controle op de armaturen uitvoeren. Het nadeel hiervan is dat als je een baken hebt aangezet dat je hier niet direct reactie van terug zou krijgen.
* PCB update
  + De pcb zal opnieuw moeten worden en rekeningen gehouden met volgende zaken.
    - Testpinnen
    - Verticale connectoren
    - Correcte connectoren voor bepaalde stromen
    - INA219 integratie
    - 12V voeding reguleren naar 5V via een IC

# Bronvermelding

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