

LoRa Gateway Drone

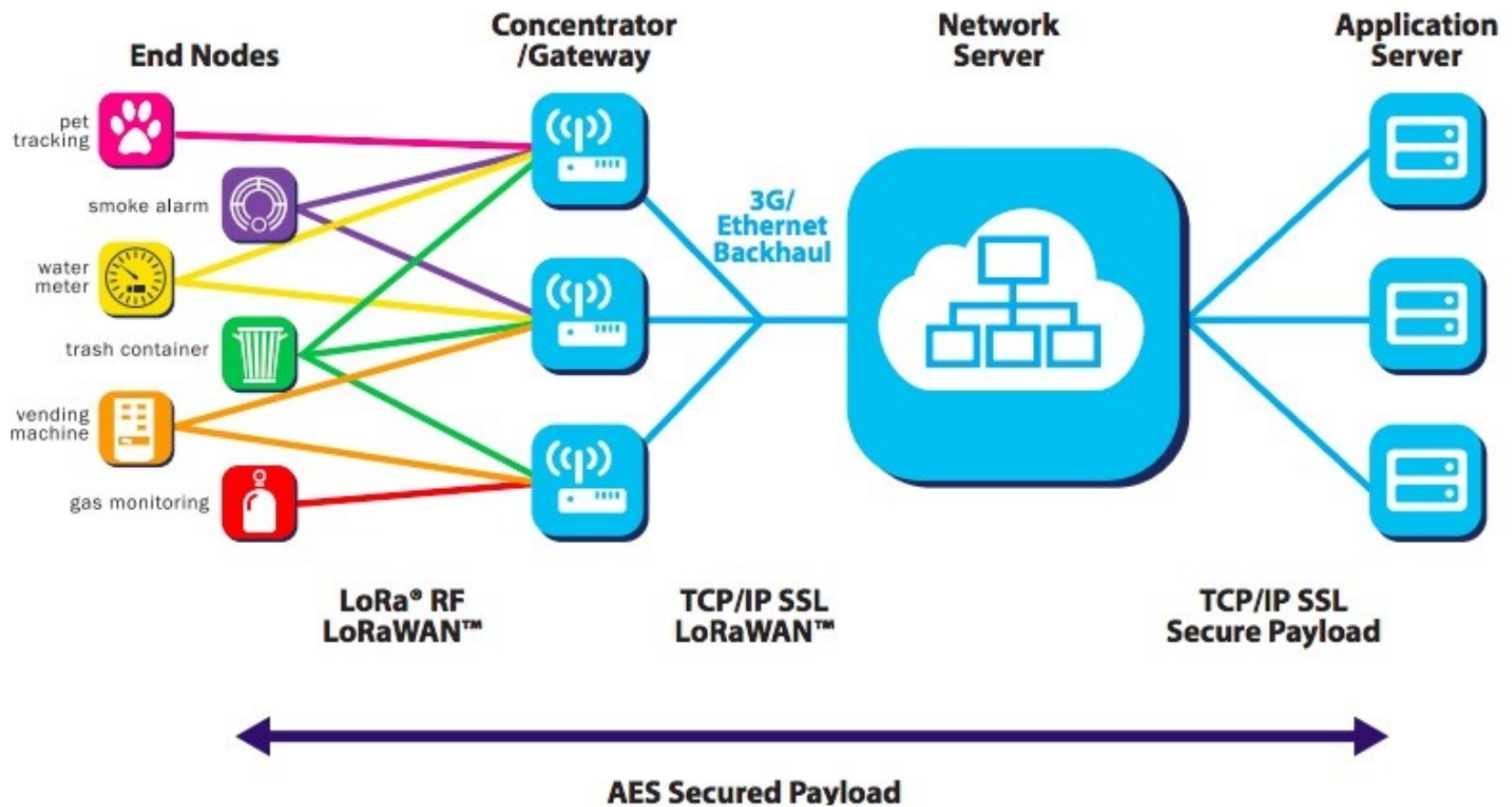
Projet CSF de Luca Orenco, Justin Diter, Denis Melikhov



Concept

- Une Gateway LoRa sert de base au concept d'IoT.
- Une Gateway montée sur un drone permet plusieurs choses.
- Ce drone fonctionnant de manière automatisé grâce à plateforme possédant une recharge à induction.

Gateway LoRa - esp32



esp32 TTGO LoRa Arduino

things4u / ESP-1ch-Gateway-v5.0

<> Code

Issues 17

Pull requests 5

Pro

Version 5 of Single Channel LoRa Gateway

35 commits

1 branch

Branch: master ▾

New pull request

platenspeler Merge pull request #67 from miaoski/master

ESP-sc-gway Merge pull request #67 from miaoski/master 17 days ago

libraries Version 5.3.1; support for T_Beam ESP32, inclding ensor support for G... 10 months ago

.gitignore no message a year ago

CHANGELOG.md Version 5.3.3; Several ahnhancement, confirm in GUI, button for docum... 8 months ago

LICENSE Version 5.0.8; Update License for 2018 a year ago

README.md Version 5.3.2; This version enabled _LOCALSERVER functionality: So wh... 9 months ago

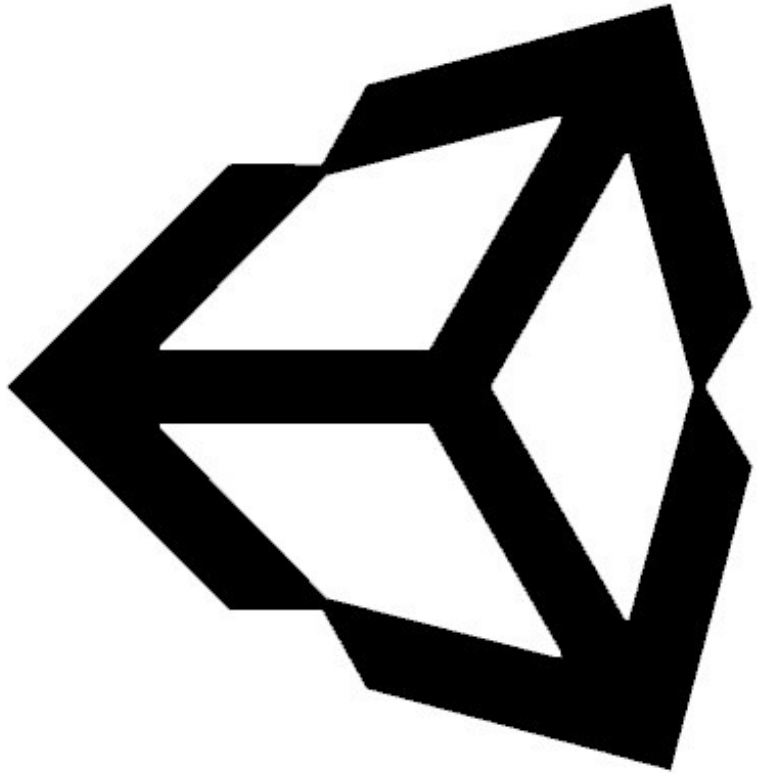
README.md



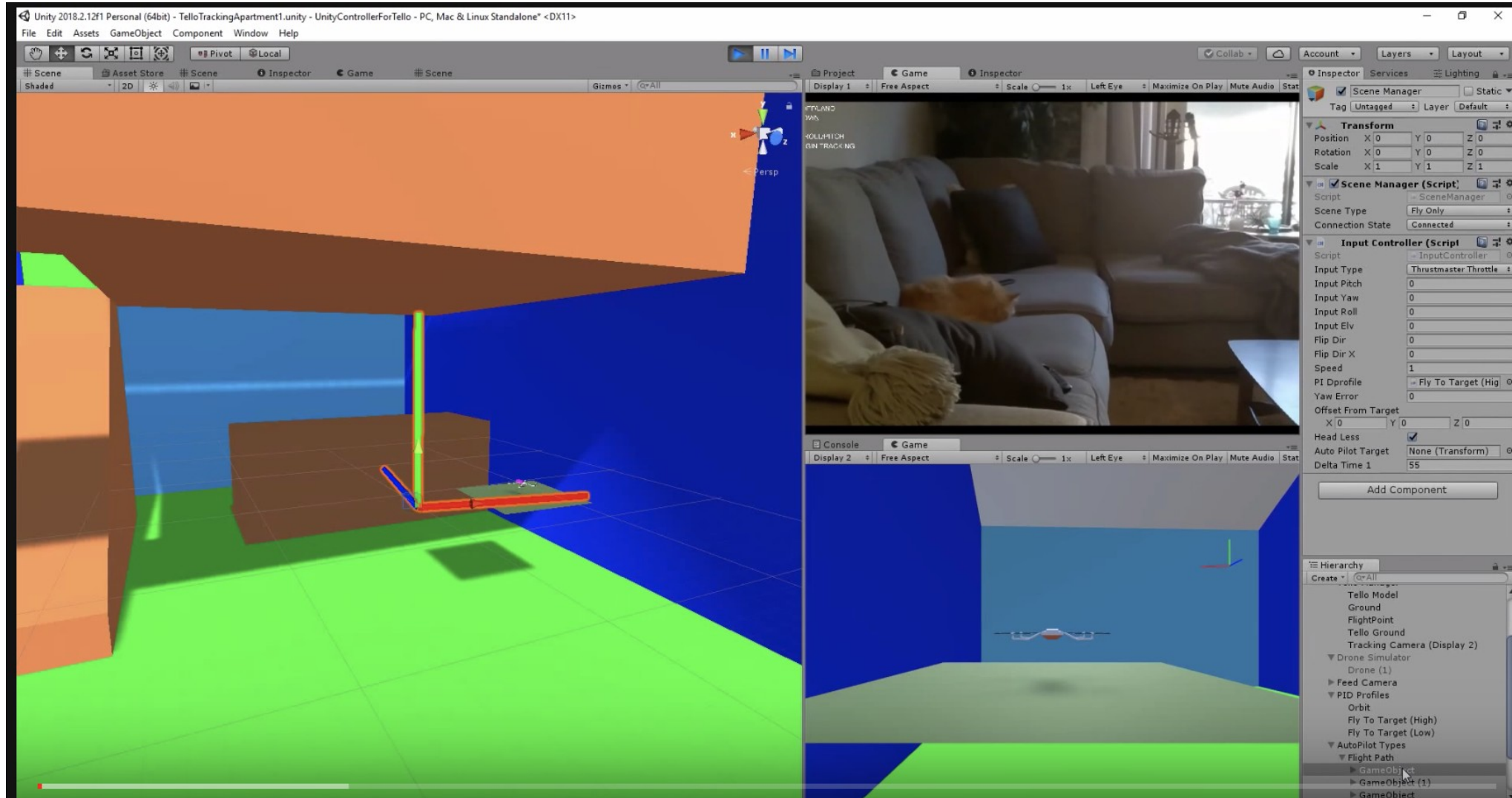
Wifi Antenna

Single Channel LoRaWAN Gateway

Drone – DJI TELLO EDU



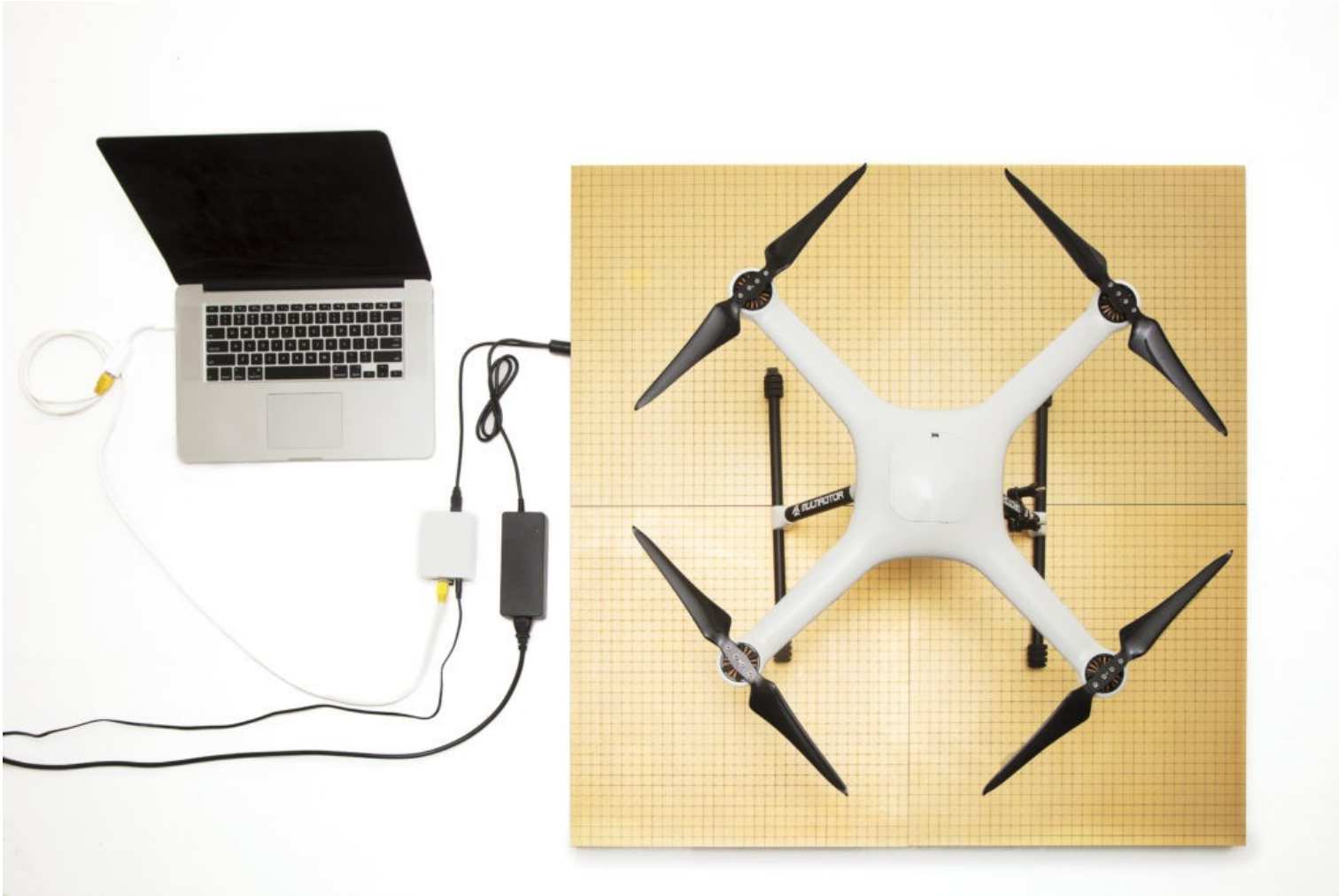
Unity Programming



Induction Charger



Charging Station





Future Hurdles

- Mise en place du gateway.
- Design + Fabrication du socle.
- Programmation du drone.
- Installation du gateway sur le drone.



Conclusion - Further in Depth

- Ce projet permet d'obtenir une borne LoRa automatisé et mobile.
- Drone plus puissant -> Gateway plus puissant.
- Socle de rechargement plus poussé.