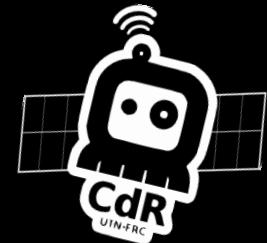


# Robotics Club



## CubeSat 3D Printing & COTS

<https://clubderobotica.github.io>

*Ezequiel Molina - Hernan Paez - Talia Bessone*

**CÓRDOBA - ARGENTINA**



National Technological University

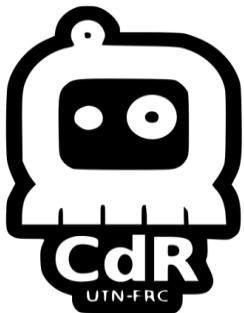
# The Robotics Club

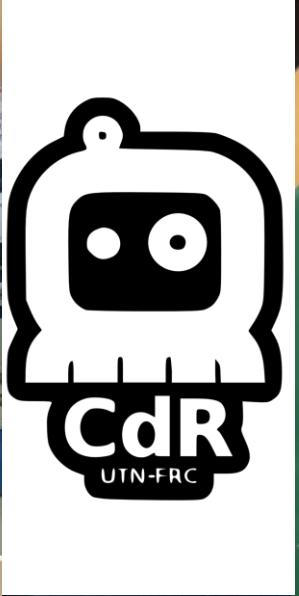


Extracurricular students Team

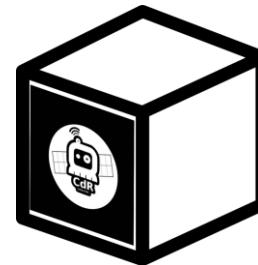
Open Source Applications

Embarking Space Field





# Mission & Objectives



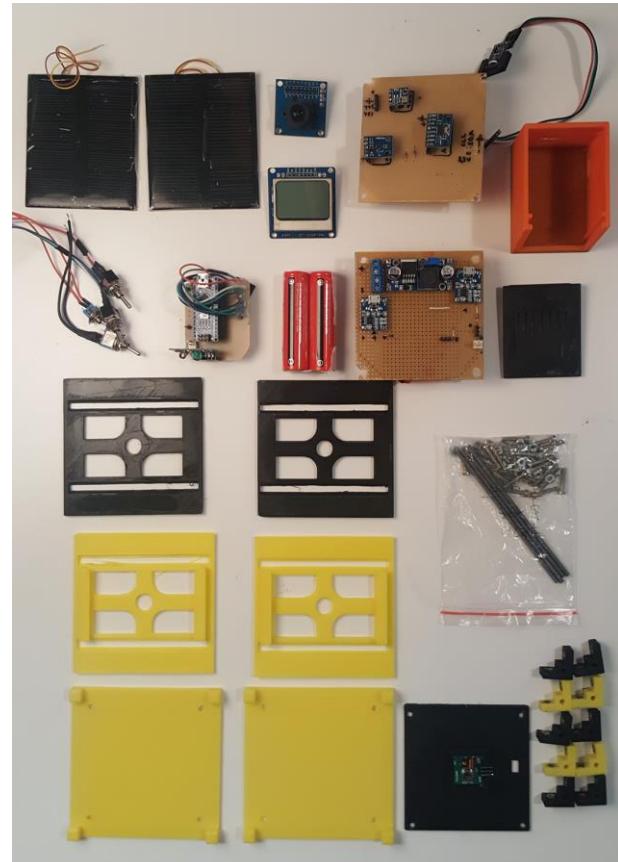
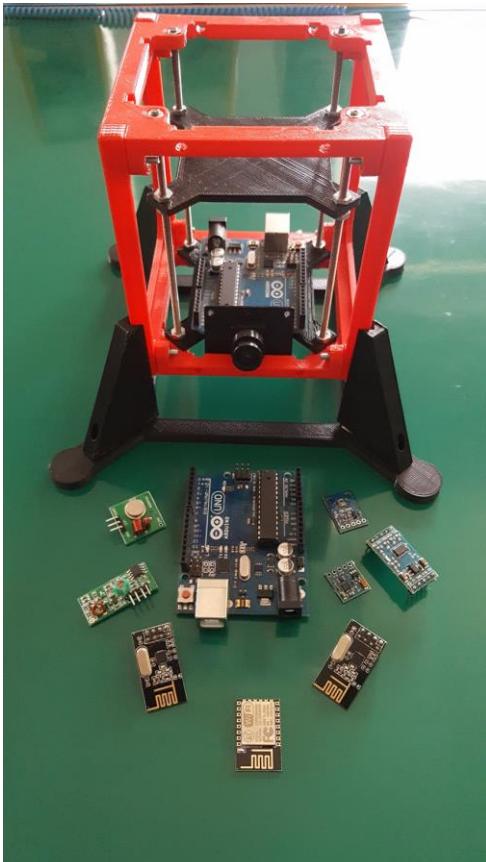
**F** **FreeCAD**

Open Source parametric 3D CAD modeler



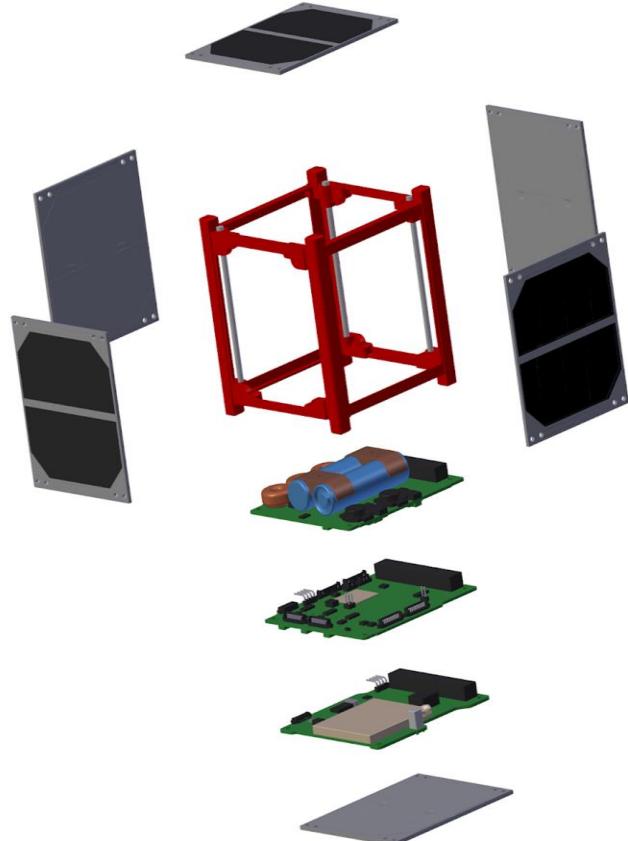
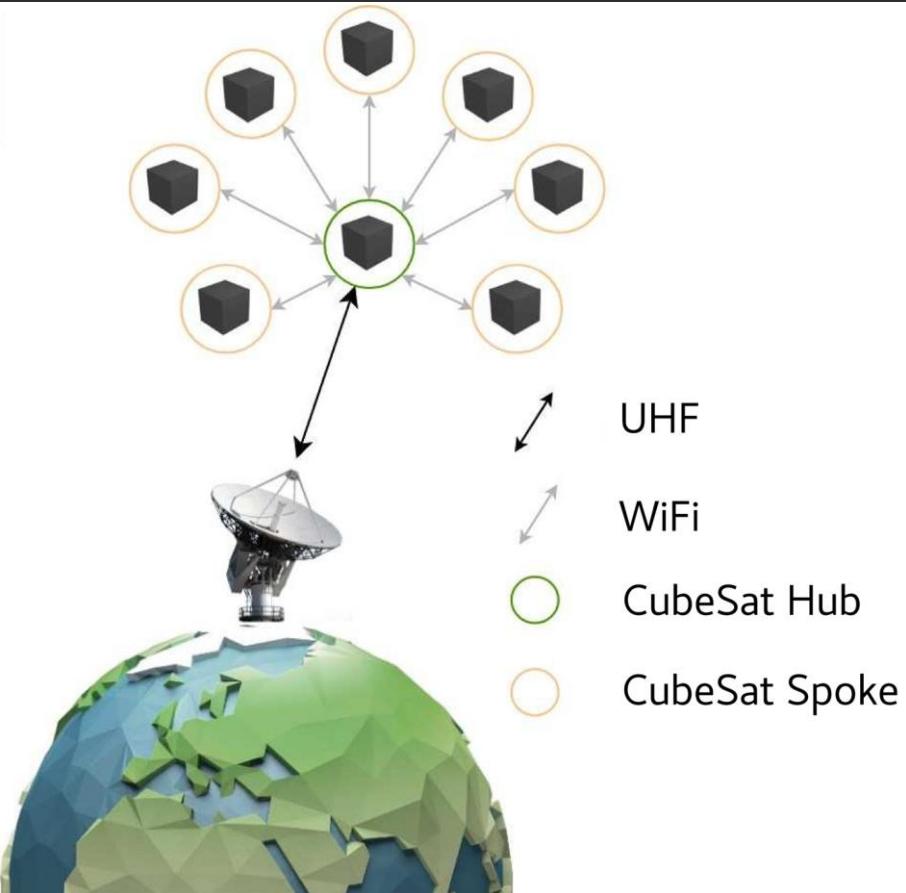
# How we believe it could be possible ?

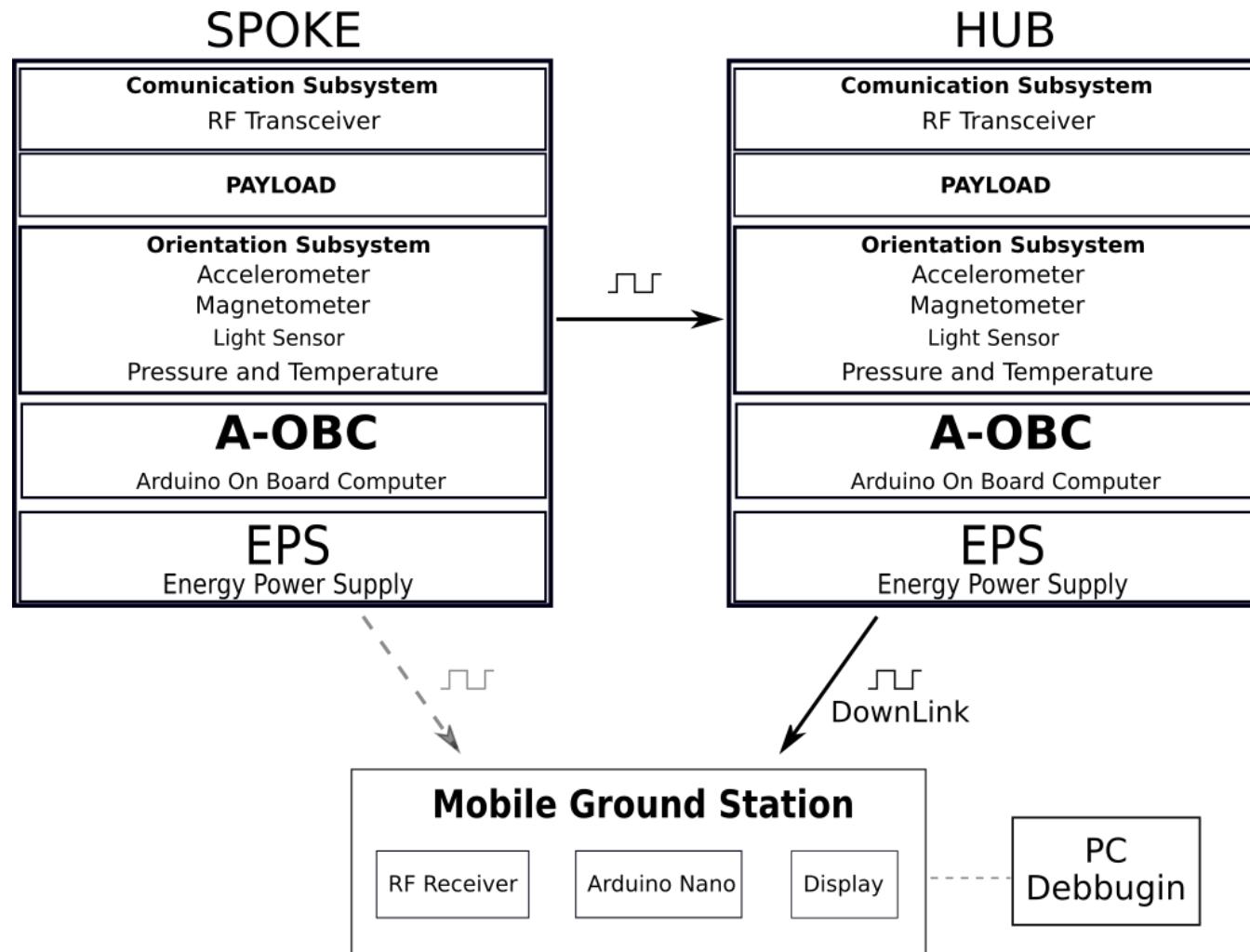
- Open CubeSat Training
- Affordable & collaborative
- Customizable
- Easy evolution



# Hub & Spoke network model segment

Space





# Data monitor



Receptor: setup

Luz recibido: 29

Luz recibido: 29

Presion recibido: 29361

Temp recibido: 27.00

y recibido: -48

z recibido: 135

Luz recibido: 29

Presion recibido: 29358

Luz recibido: 29

Presion recibido: 29365

z recibido: 135

Luz recibido: 29

Presion recibido: 29366

x recibido: -8

y recibido: -47

z recibido: 135

Luz recibido: 29

y recibido: -47

Luz recibido: 29

Presion recibido: 29361

z recibido: 135

**Ground station  
is Ready !**

Temperature

Light sensor

Pressure

Accelerometer

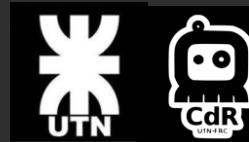
# Application

1. Introduction to the satellite technology. CubeSat, Systems and Subsystems
2. Kit presentation and components  
recognition
3. Assembly, Integration and Test  
(AI&T)
4. Field Trial, for example: imaging acquisition, data and telemetry

# What is next ?



# Thanks to....



**Authorities of the UTN for the support to make the trip**

UFS-CONAE & UNISEC contact point: Marco Alvarez Reyna

OSCW Organizers

***To all member of the Robotics Club that contributed  
to this project***

Santiago Galvez, Alejandro Dri, Federico Collado, Tiago Nieto, Alejandro Muzzio

# CubeSat 3D Printing & COTS



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