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## Communication board of a nanosatellite UHF/VHF

### **Context:**

To communicate with a ground station, a satellite is equipped with a communication board that can send data and receive commands from the ground station. The UPEC CubeSats are equipped with a CPUT UHF/VHF communication board.

The main onboard computer prepares the data set to send back to Earth and is waiting for commands coming from the ground station. In between there is the communication board.

The goal of this internship is to write the code needed to control this communication board.

This means writing the function's library to allow the main code to send data and receive commands from the communication board.

The ground station must be able to receive data from the communication board and send commands to it.

### **Skills required:**

- Embedded software programming
- Radio communication
- Knowledge of amateur radio equipment is appreciated.

### **Additional Information and contact:**

Location: Créteil (94) - UPEC

Level of studies: BSc, Master

Length of internship: 3 to 6 months

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