



# Rover's Electronics

The goal of this project is to take care of the electronics inside the Rover: component selection, soldering, PCB design, power alimentation, debugging, etc.

<b>Laboratory:</b>	TBD
<b>Number of students:</b>	1 (End of Bachelor/Master)
<b>Section:</b>	EL, GM, MT
<b>Status:</b>	Available (Spring 2021)



## Description of the project

Rovers are cool. From Lunokhod to Perseverance, these loyal companions helped humanity to move further and further into space exploration. That's why we want to build our very own rover for future Asclepios' missions. The key word in the design spirit here is: modularity.

The goal of this modular rover is to be a platform for future equipment, enabling us to explore a variety of different ConOps.

## Description of the student's work and mission

Your task will be to take care of the electronics inside the rover. From components selection, soldering, wire management, PCB design, power alimentation, integration, debugging, C/C++ coding, this project will make you go through a whole electrical design on an actual Rover that will be used in the Asclepios mission.

The main challenges will be to be able to interface all the different elements to the microcontroller, the brain of our rover.

We are looking for a passionate, motivated and autonomous student that will help us bring our baby alive!

Join us for an exciting adventure, your first step to the (analog) moon!

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