

Project ICAROS	FR-STEX-2016-MAY-05
Report Code	
Title	Battery building
Start/End Date	15-DEC2016/ 16-DEC-2016
Coordinator name and email	Marc Garrigou – marc.garrigou@ac-toulouse.fr
Name of teachers	Patrice SUIN – patrice.suin @ac-toulouse.fr
Number and age of students	24 students / 16-18 years old
Description of activities	During this session, our students in first year of MEI (industrial equipments maintenance) build a battery with their backpack content to charge the drone battery. The aim is to understand the functional principle of a battery using the need to charge a drone 3,7V Li Po power cell. They first build a single battery using Coins, nails, iron wire, apple, water, soda, Then as the voltage is insufficient they have to connect
	several batteries in different ways to get to 3,7V. Soon, they are going to study the Li Po technology, reviewing by this way, the previous chemistry lesson about redox reaction.
Learning outcomes	 During this teaching sequence the exam skills practised by the students are: Appropriating Analysing Carrying out (Implementing) Validating Communicating The different abilities associated to the degree framework are: T4 Building a battery and measuring its voltage. Reminder: CME2 Experimentally establishing that a wire supplying several dipoles is crossing by the sum of the intensities used by each dipole. T3 Identifying oxydizing and reducing components. Using the electrochemical scale.





Photos or other relevant material





