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STUDY AND DEVELOPMENT OF AN ELECTROMAGNETIC SIMULATOR FOR LITHIUM-ION BATTERIES OF AN ELECTRIC VEHICLE

PROJECT DESCRIPTION

This project meets the following objectives:

- Develop an electromagnetic simulator on a lithium-ion battery based on several parameters such as:
  - Battery charging and discharging phases
  - The effect of signals around the battery depending on the type of signal: analog/digital and wired/wireless signal
  - The different vehicle states (on, off, etc.)
  - The transmission frequency (High frequency, Low frequency)
  - The Type of voltage (High voltage, Low voltage)

PROFILES: ENGINEER

2 Trainees

Electrical Engineering, Telecommunications, Embedded Computing, Microelectronics (ENIT, ENISO, ENIM, ENIG, ENIS)

6 months

C, C++, Python, MATLAB - Simulink