Funded by the Erasmus+ Programme of the European Union

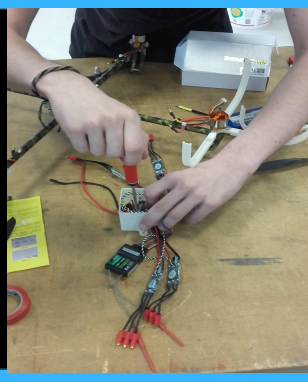
Interdiciplinary and Collaborative themAtic leaRning of technOlogy and Science

ICAROS Project

5 European countries collaborated to create drones. The aim is to efficiently communicate and transfer the methods and the know-how of students, while building international ties.

Each high school group from the 5 countries created their own drone: ICAROS I based on a method elaborated by the students.

Then everybody gathered and collaborated to build ICAROS II, a more elaborated drone.



Website: http://icarosproject.com/

Jean FAURE, Jacques MONTGOMERY,
Jérémy LARDINI - Bac professionnel MEI
Gaston BOUSQUET – BTS Aéronautique

Géraldine MONAGO – English teacher
Alexandre CATALA – STI Génie Mécanique teacher
Nicolas WOLF – STI Génie Mécanique teacher
Patrice SUIN – Math/Physics teacher
Marc GARRIGOU – Coordinator

- A two-year-project
- Focusing on thematic learning and STEMs
- A European partnership
- To better motivate students
- To promote teacher's development
- To prevent school drop out

ICAROS I

Methodology and skills developped in each country:

- Get familiarized with a technical object
- Use theoretical knowledge in STEMs to apply it to a real-life application
- Find and master the necessary tools
- Analyse the different technical parts and functions (frame, wiring, ESC, batteries, FCB…)

- Creation of a parts lists and production plan
- Assembling drone
- Problem-solving in real-life context
- Work on the motions
- Safety and regulations
- Flight tests

ICAROS II

Creation of the second drone, ICAROS II, during a meeting with all the students.

Each country was in charge of building **ONE** part of the drone

- Communicate to share and exchange information
- Follow the Airbus transnational manufacturing process
- Design one obstacle for the challenge and send video instructions to partners