European Project Semester

PROJECT OUTLINE

Project dates: March 2017 - June 2017

Title:
MIDOUR 3

Project activity areas:
CAD Design, Mechanic, Scan 3D

Keywords:
CAD Design, Mechanic, Scan 3D

Tutor's name and coordinates
Client – End-user: ENIT'EARO et AVT (association velivol de tarbes)
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Project origin
Associative

Project technical background:

The Midour 3 is a wooden amateur-built aircraft. The Vélivol Association of Tarbes intended to make a Midour 3 to perform towing gliders. The project has already begun 1 year ago, wooden parts of the aircraft are already made but much remains to be done.
This type of amateur-built aircraft can be modified from the original plans. The original aircraft is a single-seater but the one to be built will be a two-seater with dual controls.
Other changes are considered regarding the exhaust and, consequently, the motor carrier chassis.

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Studied topics:

The motor support must be changed because of the use of a muffler which is not f the original one designed.

The different tasks are:

- Carry out the model on Catia V5 original engine support from 2D drawings
- Scan the muffler to integrate with CAD
- Change the engine mount to fit the muffler on Catia
- Realize industrialization with the help of a partner company
- Designing the necessary tools to manufacture this support.
- Scan the engine covers of an existing "Midour" plane.

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- Optionally change the covers to adapt to the new

support.

- Designing the molds to make these covers.

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