



European Project Semester

PROJECT OUTLINE

Project dates: October 2017 - January 2018

Title: ENIT 3D Printer

Project activity areas:

*Mechanical engineering – Conception-
Mechanical Building - Printing Parts in FDM*

Keywords:

Design on Catia V5
Realization of 3D Printer prototype
Validation development

Tutor's name and coordinates

Client – End-user: ENIT
Technical ENIT Supervisor + contact:
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Project origin

Need a reliable and robust 3d printer for
Students

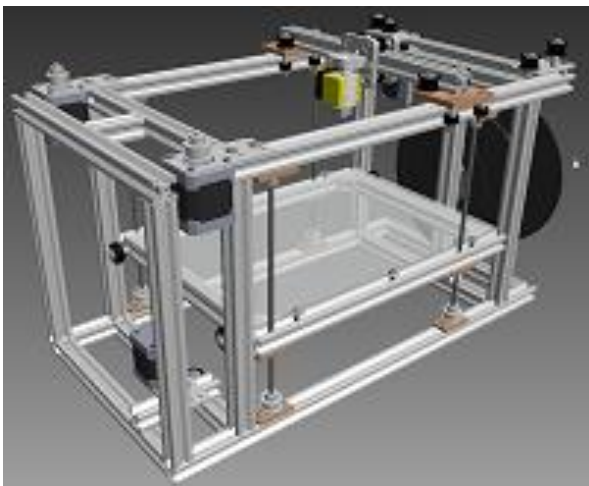
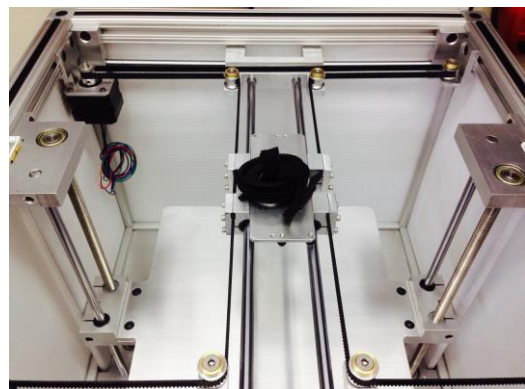
Project technical background:

The ENIT is currently equipped with seven 3D printers, all of which are prototypes produced in the framework of ENIT projects and EPS projects and which are used for new projects.

The ENIT wants to equip itself with a new 3D printer that will be used in the framework of practical work and made available to the students of the ENIT.

For this type of activity, we need a reliable and robust machine, which is not the case for the prototypes we already have.

In the previous semester, a group of ENI students worked on the project and proposed a design for this printer, very close to these pictures.



CAD design on Catia is virtually complete
The project will start from this design.

A special feature of this project is that it is carried out in collaboration with the start-up "Lynxter", specialize in the manufacture of 3D printers

This Start-up was created two years ago by former ENIT students

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Studied topics:

The work to be carried out, which is detailed on this page, is to build this machine and to make it work by making the first impressions.

To lead this project, the tasks to be done by the EPS students are:

- To Validate the design of the printer
- Possibly, to propose improvements and apply them to the CAD on Catia
- To work on industrialization
- To perform the financial assessment
- To order some commercially available components
- To manufacture or to print in 3D printer the other components
- To assemble all parts, to make electrical connections
- To test the machine to optimize working parameters

Students in mechanical engineering, electrical engineering are welcome to lead this project.