



# European Project Semester

## PROJECT OUTLINE

**Project dates:** March 2018 - June 2018

**Title:** Design of cheaper lawnmower robot using smartphones capabilities

**Project activity areas:**

*Industry*

**Keywords:**

Design, CAD, Mechanics, Electronics, Programming, Robot,

**Tutor's name and coordinates**

Client – End-user: ENIT

Technical ENIT Supervisor + contact:

Amèvi Tongne

François Grizet

Mourad Benoussaad

**Project origin**

Teaching

**Project technical background:**

The objective of this project is to design a lawnmower robot with few embedded technologies but completely autonomous during the moving phases. The lawn analysis is done via smartphone which determines the trajectory of the robot after taking some pictures of the lawn. The goal of this approach is to avoid embedding lawn delineation technologies on the robot and using lawn delineation accessories that are used by most of lawnmower robots.



**Studied topics:**

This project would interest students who wish to develop skills in mechanical design, electronics and programming.

As the project is quite large and covers a large part of engineering disciplines, the selected students will have the opportunity to orient the subject in their area of expertise to partially solve the problem.