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[ParKing]

Project Charter

REVISION HISTORY AND APPROVAL RECORD

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| --- | --- | --- |
| **Revision** | **Date** | **Purpose** |
| 0 | 23/02/2016 | Document creation |
| 1 | dd/mm/yyyy | Document revision |
|  |  |  |

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# Executive Summary

The executive summary should be a high-level summary of what issues or problems the project was created to correct. Typically, the executive summary also provides the background information and general statements regarding the project’s purpose or justification which will be covered in more detail in the appropriate section(s) of the charter

ParKing is a project created by the company EyeTech S.L. whose aim is to control and monitor the access of the UPC / Campus Nord parking in order to provide a new product to help Campus Nord security to control these parking areas.

The project consists mainly on video processing in order to design software able to recognize the license plates of the cars that want to access to the parking, detect the occupancy and monitor the car through the parking at real time. In addition it will automatically recognize dangerous situations according to the scenarios defined by the client.

# Project purpose and justification

This section describes the purpose and justification of the project from the resulting product perspective. The product need should provide the reasoning behind the need for this project.

## *Product Need*

Discuss why the product is needed (market demand, organizational need, customer request, technological advance, legal requirement, ecological impacts, social need, etc). This section should also include the intended effects of the business case (i.e. cost savings, process improvement, new product development, etc). Also include the benchmarking of similar products and stress how the product differentiate from other competitors.

The need to make this project emerges as a demand of the security team of the UPC / Campus Nord in the parking areas. The requirements established are:

* User must be able to monitor the parking at UPC / Campus Nord.
* The product needs to be able, at least, to identify car license plates; to detect the occupancy and it must have an interactive platform with the user (GUI).
* Must be able to monitor in real-time.
* The present project will be coordinated with UPC central services.
* The present project must comply with de LOPD.
* A confidential agreement must be signed by all the team members.

The intended effects of the business case are the cost saving as the budget planned for this project is not very high (500€), while a new product development is intended to be done.

There is a large amount of companies that develop similar software that can be considered a direct competitor for this project. Vaxtor Systems (i.e.) offers also a security system based on license plate recognition with a recognition rate higher than the 98%. Nevertheless, as this project offers a personalized security system for UPC / Nord Campus, our software will be better adapted to the circumstances. Another plus point is the fact that the software this company will develop will not be as expensive as other similar products of the market.

## *Product Objectives*

This section should consist on a brief list of the product objectives (intended use, only for professional use or for the general public)

The objectives of this product are aimed to improve the security of the parking of UPC/Campus Nord area, and the main ones are:

1. Detect the license plates of the vehicles, find out each character and compare these characters with a database with the registered licenses to give access permission or deny it.
2. Detect the occupancy of the parking area.
3. Monitoring of four-wheeled and two-wheeled vehicles through the road parking
4. Design and creation of a graphical interface, to use it on a computer or pad, to satisfy the needs of this security system in real time.
5. It is oriented to the professional use of the security members of the UPC.
6. Creation of a Bluetooth service in the entrance of the parking to give information to the users about the free parking places.