



Cover page

Project title: Smart Parking System Academic Year: 2022/2023

Group Members: Hiba Ibrahim Habash , Yasmeen ramzi Nassar

Department Name: Computer Engineering

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Project Type Hardware

Supervisor Name: Mahmoud Assad

Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

Abstract Body:

Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
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- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**

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Project's Abstract:

In the modern world owning a car is a huge necessity and with that comes the problem of where to park the car when going out. Finding a safe parking spot for the car is sometimes difficult with all the traffic we face. This problem is the cause of creating our project.

Our project aims to create a smart car parking system where the user can subscribe to a weekly parking, a monthly parking, or even a place for one day according to the number of times the user wants to use the car park and the fees will be charged according to the shipping method used by the user.

And the parking system will allow cars subscribed to the system only to enter the parking and detect them leaving. The project will also have a system to detect entering cars and departing cars and alert them if the entry is closed or not. and that is to prevent them from crashing into each other.

The second main feature of our project is that it has a mechanical rotating parking system that enables multi cars to park in a small parking area efficiently .

Objectives:

- Solve parking issues due to heavy traffic
- Create a system to manage the parking for the parking owner
- ensure for the users that their cars are in a safe place all the time
- take advantage of small lands and turn it into a profitable business

Methodology:

we will start creating the parking system using arduino and test it feature by feature and then start creating the rotating wheel parking design and add the other features to it

This project has been done before in other countries but never in palestine and the added features to it make it one of a kind in the whole world .

An-Najah National University
Faculty of Engineering and IT



Faculty of Engineering & Information Technology
Quality and Accreditation Unit

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