

Project Plan

Handicapped Parking System

Preface:

The system is intended to prevent parking in lots reserved for disabled people. Parking preventing is to be done by bars or traffic spikes and will only allow eligible users who have the right to park in the designated lots. Authorization is done by verifying the driver eligibility. The system is also expected to inform users at the parking entrance of the availability of handicapped parking lots.

Supervisor

- Dr. Kamal Chenaoua

Team

- Rami Rustom 200928490
- Mohammad Makkawi 200924510
- Yazan Hlayel 200991670

Outcome

- A working prototype that identifies the driver, checks for its eligibility and grants or denies access to the parking lot.
- A counter for the number of available lots for disabled people, and possibility to be displayed at the parking entrance or communicated through mobile phone.

Requirements

- A reliable and secure identification system that checks user eligibility.
- A reliable, “Hands-Free” and easy to use blocking system.
- The system must be able to handle all cars’ designs and sizes.
- Accurate counter of empty handicapped-parking-spots.

Timetable:

Task ID	Task Name	Owner	Duration\ Week
1.1	Collect information about the current methods.	Mohammad	1
1.2	Study all possible blocking techniques.	Rami	
1.3	Study all possible identification/ authorization techniques.	Yazan	
1.4	Choosing the suitable parts. Order required parts.	Group	

Table 1: Analysis Phase : 1 Week : Rami

Task ID	Task Name	Owner	Duration\ Week
2.1	Design identification sub-system.	Yazan	2
2.1.A	User-related parts.		
2.1.B	Parking-related parts.		
2.2	Design the blocking sub-system.	Rami	
2.3	Design empty-spots-counting sub-system.	Mohammad	
2.4	Testing compatibility .	Group	1

Table 2: Design Phase : 3 Weeks : Mohammad

Task ID	Task Name	Owner	Duration\ Week
3.1	Implement identification sub-system.	Yazan	2
3.2	Implement blocking sub-system.	Rami	
3.3	Implement counting sub-system.	Mohammad	
3.4	Integration and testing.	Group	3
3.5	Fixing issues and retesting.	Group	

Table 3: Implementation Phase : 5 Weeks : Yazan