



Cover page

Project title: ...Automated Car Wash with Parking System.....

Academic Year:2023-2024.....

Group Members:Ibrahim Ashour.....

Department Name: ...Computer Engineering...

.....Bahaa Abbas.....

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Project Type Software or Hardware (Hardware)

Supervisor Name: ...Dr. Suleiman Abu Kharmeh.....

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?
- **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.**



Project's Abstract:

An automatic car wash project can have a variety of features and components depending on its complexity and the specific requirements of the system. You might find in automatic car wash project save the time and speed in implementation the car wash.

The main objectives in our project to clean the car at a certain speed and the least time possible. The project have multi stages starting from opening the gate by servo to clean car with water and soap which are pumped automatically to brushing the car, and finally to drying it. In each stage of car wash we have one thing to do it if sensor read the car the stage will begin and the car pass in stages by conveyer belt movement controlled by motors. We have a mobile application to do perform part of the process remotely.

In addition, the car wash will be integrated with a car parking option. The customer has the choice to park or not. If he/she chooses not to park, then simply after car wash process the car will leave. Alternatively, if the customer's choice to park, then he/she will be asked about the time wanted to park and go through payment process.

The car is lifted by a gantry that moves on X-Y axis to reach the first available spot, controlled by motors for X-Y movement, also by sensors to know which park is available or not.