

Design of High Rise Car Park System

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ABSTRACT

Do you have problems finding a parking lot to park your car? Do you feel tired and frustrated looking for a parking space in a parking structure during peak hours? There are over 550 million cars on the road worldwide and this number is increasing a rate of more than 5% annually. Thus, the demand for convenient and safe parking by the drivers also increases. However, now a driver just need to leave the car at the entrance of the parking garage/structures and a system will convey the car to a parking lot in the parking garage itself. For instance, in US a company name Robotic Parking, Inc. had built multi-level parking structures, which doubles the number of cars that can be parked in a conventional garage.

Since the project title “To design a high-rise car park system” is related to Mechatronics, I choose this title as my final project. Basically, I will give an obvious idea what is this title all about. Besides, I will show the design of my parking garage and I will explain in details about the concepts, mechanism, mechanical analysis, electrical and electronics application and computer applications in this final report.

You won't have to take long walks to and from your car, look for parking spaces, and remember where you're parked or spending time for elevators and climbing stairs. You simply leave your car at the entrance to the parking structure, and the system will handle the rest. So, what do you think?