

Parking Garage Automation Group 1

Website: <https://sites.google.com/site/parkinggarage452spring2011/>

Team Strengths:

James Jacob: programming, organization and planning, data analysis

Brian Goodacre: design, programming, documentation

Richard Romanowski: design, organization, presentation

Richard Roman: presentation, organization, programming

Matthew Rodriguez: documentation, organization, presentation

Project Description:

Parking Garage/Lot Automation

Proposed changes to project design:

1. Guaranteed spots can be given up on a day to day basis
 - a. This accounts for when guaranteed spot users go on vacation or don't come into work
2. Users will not be able to select individual spots
 - a. They will be able to select preferences as to where they want their parking spot
 - i. Handicapped, parking level, proximity to door, etc
3. Guaranteed parking spots are not factoring into the equation when calculating how much to overbook by
4. All customers of the parking garage would pull to the elevator when attempting to enter the parking garage
 - a. The elevator will have doors on both sides
 - b. Registered customers would enter the elevator and be taken to their floor
 - c. Unregistered customers would drive straight through the elevator to enter the first floor of the garage
5. Unregistered users and registered users without reservations will log their expected parking duration at the entrance
 - a. Unregistered users will pay as they exit the parking garage
6. If a vehicle is parking for less than a certain amount of time (visitor, delivery, etc), it will not be charged for parking
7. All walk-ins are parked on the default floor
 - a. When the first floor fills up, parking will continue on other floors with open spaces
8. The smart phone application will provide the user with the capability to navigate to his/her vehicle when it needs to be found
9. Discount parking will be offered during certain off-peak hours