LEBANESE AMERICAN UNIVERSITY
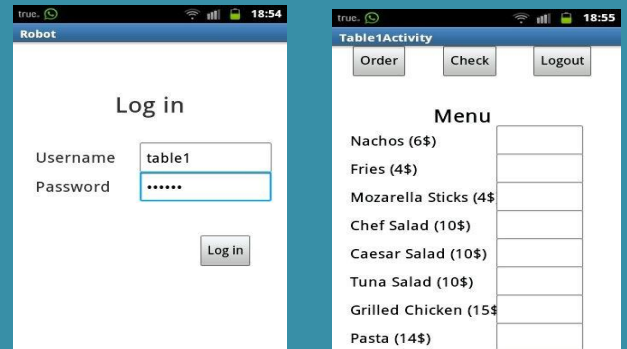## Electrical and Computer Engineering Dept

Capstone Design Project
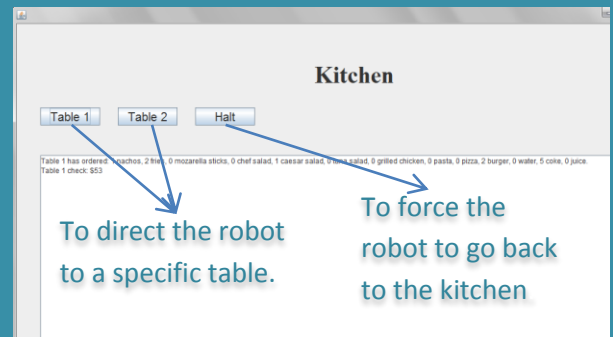## Restaurant Automation System

Abstract

The purpose of this project is to automate a restaurant to carry out tasks more efficiently by implementing a waiter robot and enabling customers to make their orders through an android application.
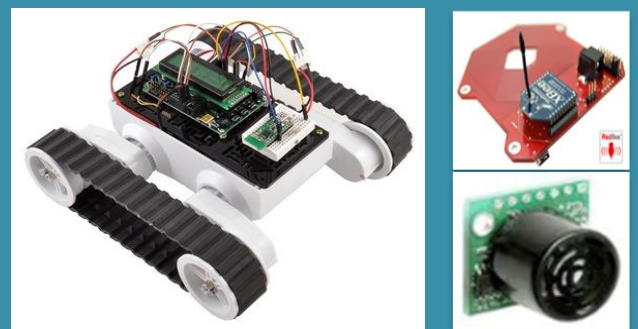
Design

The robot will be following RFID tags placed on the floor to get to its destination and it will be avoiding obstacles along the way.

The costumers select their orders from an application installed on a tablet present on their table. An employee will be receiving orders and directing the robot to the appropriate destination, all form an interface on a local PC placed in the kitchen.

Android Application

PC Interface

To direct the robot to a specific table.

To force the robot to go back to the kitchen

Hardware

Catherine Ghadban & Kathy Elias El Homsi

Spring 2013