# Introduction

I used to work for a delivery company in Berkeley. There we used robots to complete the deliveries. We decided to create hubs where the robots would be parked. Those hubs would help the human couriers to find the robots easier and to load them.

I could improve the location of those hubs by using the location data of foursquare. The hub's location must be near the densest restaurant areas in order to reduce the meeting time between humans and robots. So, by using k-nearest neighborhoods, I can classify the Zip areas using the number of restaurants. It will help to place the hubs and to determine the number of robots that can be placed in each one.

# Data

The data used for this project are the zip codes of Berkeley, CA and the location data of the foursquare app. The zip codes will be retrieved by scrapping the zip-codes.com page, there you can find all the zip codes of the USA. The location data will be retrieved using de foursquare API.