

## Abstract

Recently, the most controversial issue is the bugs of eTag's billing system; therefore, we develop an eTag billing verification system of Android based to solve this problem. This system can easily allow the drivers to use his Android smart phones to keep the highway driving record and conveniently calculate the toll fees. Currently, our system has been successfully established Google Map, combined with GPS positioning system, kept the highway driving record. When a car is traveling on the highway, the system will launch GPS positioning system and record the latitude, longitude, speed, height and timestamp information. All these data will be stored in system, and are used for calculating the toll expenses. System will also provide eTag relevant information. We have setup partial portion of highway to let the drivers verify the correctness of eTag's billing.