IOT based Vehicle Entry System

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Overview

An automated Vehicle entry system, whenever a vehicle crosses the gate, infrared and photodiode detects the incoming vehicle which triggers the shutter of camera and it captures a photograph of number plate on which we apply popular Image processing algorithms to detect vehicle number which later gets stored automatically into a file system with a timestamp.

Goals

1. To automate the process of vehicle entries at every institutes entry gate and hence save time.

2. To increase precision of entries and eliminate human error.

Future scope

Automatic Toll booth system

We can modify this project to automate the process at toll booths of paper receipts and on-site payments. The number plate can be used to generate a e-receipt directly in ID of the vehicle. This will increase transparency. Also automated system

will help stopping the malpractice of toll booth companies to collect toll even past their tender dates.