

2008 TAIWAN INTERNATIONAL SCIENCE FAIR

CATEGORY : Engineering

PROJECT : Traffic Light Project

AWARDS : Engineering Third Award

SCHOOL : Emirates Science Club

FINALISTS : Abdulamir Ahmed Abdulla Kodarz

COUNTRY : Albania

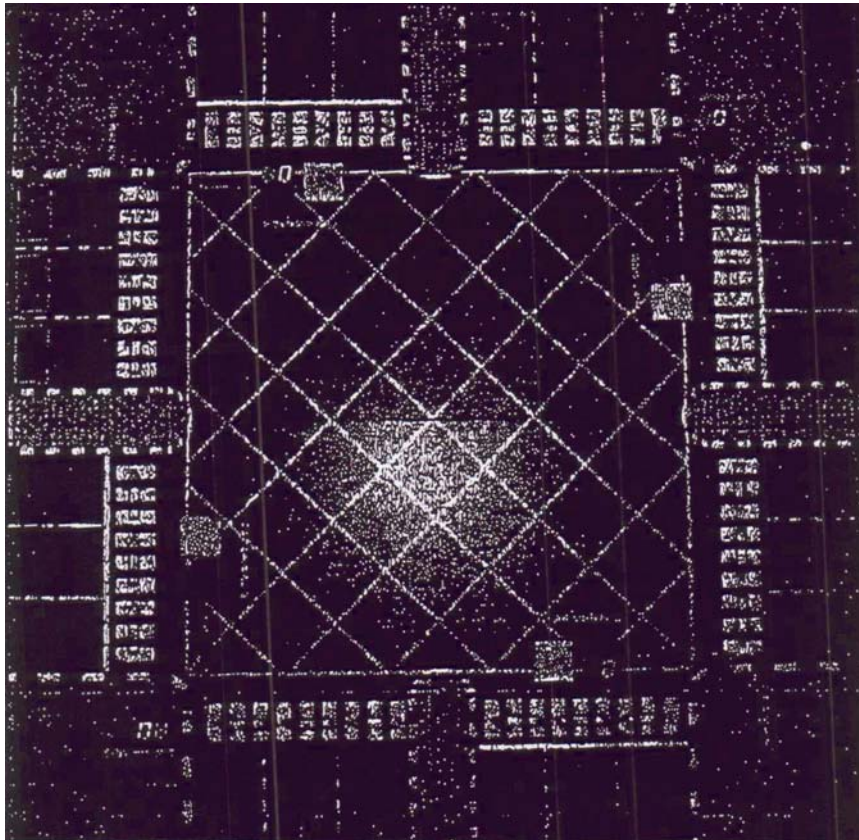
Traffic Light project

The project is a simple traffic light which operate two by two type. The new ideas in this project are :

- 1- Digital counter for car signal.
- 2- Digital counter for side walkers.
- 3- Auto traffic detector.
- 4- Red light crosser detector.

Digital counters.

The signals counting the whole period the the junction do in each cycle. The counter starting counting from 16 sec. down to zero and each side walk counter is vise versa with it is main counter. The time is changeable between 1-99 seconds. Also there are four square lights fitted with the main counter to illuminate the colors.



Auto Traffic detector.

There are three sets of switches in front of each traffic light to detect if the road is clear for the cars to enter the next road.

Red light crosser detector.

After the signal become red this system will operate to detect any car try to cross the red light by the car cutting the switch two times.

評語

- 1) 本作品以雙向十字路口紅綠燈管制系統常有車輛擁塞於斜黃線區，使得他向車輛雖處於綠燈之情況下，卻無法開車的窘境，故而提出一個具有創意的作法，讓綠燈在他向通行之前，即行換燈，以避免進入黃線區車輛滯留之問題。
- 2) 本作品理念頗具創意，模型亦鮮明可行，然原理及設備元件均屬既有，若能考慮現代化 LCD 類元件及新控制系統，結果將更為可觀。