

Engineering, Design & Innovation - EE391

"Traffic Signal Light Controller"

PROBLEM DEFINITION

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Problem Definition

The city of Karachi has numerous traffic problems at busy intersections that cause severe traffic jams resulting in wastage of time and increased noise and air pollution leading an individual to anxiety and mental stress. In such circumstances, traffic light signals with fixed light timer are particularly difficult to use as during rush hours the traffic flow increases immensely at a certain road end which the signal with fixed light timer doesn't realize hence results in traffic jam. The study carried out in EDI course concludes that a traffic light signal with variable light timer works more effectively if the traffic sergeant manually controls the traffic. A controller that can transmit the desired signal to vary the signal light timer would be desirable since this would improve the traffic situation at road intersections.