**ABSTRACT**

Traffic counts, speed and vehicle classification are fundamental data for a variety of transportation projects. Traffic Monitoring and Information Systems related to vehicles. A set of traffic parameters such as vehicle classifications, lane changes, parking areas etc., can be measured. There is a need for data about vehicle classes that use a particular highway or a street. Traffic counts, speed and vehicle classification are fundamental data for a variety of transportation projects ranging from transportation planning to modern intelligent transportation systems. Traffic Monitoring and Information Systems related to vehicles cascade. In addition to vehicle counts, a much larger set of traffic parameters such as vehicle classifications, lane changes, parking areas etc., can be measured in such type of systems. In large metropolitan areas, there is a need for data about vehicle classes that use a particular highway or a street. In this project, the system designed using Raspberry Pi with Python and OpenCV packages to design an efficient system for traffic counting.