

Auto Monitoring and Identification of Bus Transport System

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Abstract: *The "Auto Monitoring and Identification of Bus Transport" project presents an automated solution for managing bus entry and exit at designated points, with a current focus on college campus transport. The system leverages a combination of barcode scanning, GPS tracking, and wireless data transmission to monitor bus movements. The primary objective is to streamline the process of identifying and tracking buses as they pass through specific gates, ensuring efficient and reliable management of transport services. The project focuses on providing a cost-effective and scalable solution for transport management in educational institutions and other similar environments. It offers the benefits of automated tracking, realtime data transmission, and enhanced security through precise vehicle identification. Though the current application is limited to tracking bus locations at the campus gate, this framework has the potential for expansion into broader real-time vehicle tracking systems. The combination of low-cost hardware and simple implementation makes it an ideal solution for institutions seeking improved transport management systems.*

Keywords: Auto Monitoring, GPS Tracking, Wireless Data Transmission

