

ABSTRACT

Installation of digital information center on rail performed as a solution for advertising media in the form of posters that require large budgets. However, the next problem is the place of installation and electrical voltage is limited. At the end of this project dbuat a mini pc that utilizes siste as a solution to solve the problem.

Digital information center system designed by using the Raspberry Pi as a control system, gps as a device to show the route. Wifi dongle as communication system between admin and Raspberry Pi, web server as a content processing, and browser as system interface.

The final project is to produce a media center that applied in train. Information displayed in the media center interface is weather information, route of travel and advertising content. Maximum distance to connect Raspberry Pi using wifi dongle is 5 meters. While the error in the GPS in a stationary position in the open space is 2.118175685, gps error in a stationary position in a closed space is 10.46242484, gps error in a moving position is 25.42098791, and the delay between the gps with the actual train position is 1.6729. Delay booting the system to display system interface is 221.1 seconds.

Keywords: Digital information center, raspberry pi, mini pc.