

Navigasi Robot Menggunakan GPS Berbasis Mikrokontroler

(Robot Navigation Using GPS -Based Microcontroller)

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ABSTRACT

Mobile robot is a robot that is able to move / move from one position to another position. In the case of the discovery of many mobile robot mobile robot can not yet know where the robot should be heading . Thus the need for a navigation system that can guide the movement from one position to another position by determining the position and direction of motion. In the final report is intended to create a navigation system on the mobile robot , which in this final report be wheeled robot using GPS module receiver and using methods of navigation gps waypoint -based microcontroller , which serves as a system that can guide the movement of the robot from a position to another position. At the end of this system results wheeled robot can achieve the goal with a tolerance of ± 5 meters (radius) .

Keywords : *Autonomous , Navigation System, GPS Ublox NEO - 6, HMC5883L, Waypoint*