

ABSTRACT

Now days automated technology development have been advanced so can be used to help human to do a work what is have high risk. Unmanned technology is one of technology to enable to do that high risk work. Unmanned vehicle can work with human operated and in autonomous tracking waypoint what is have been defined before by an operator. To work autonomously unmanned vehicle using data from GPS sensor to discover current position and orientation, but GPS data cant always good. Its need neuro-fuzzy what is used data from other sensor to estimator position and orientation unmanned vehicle if GPS data cant be used.

. This Final Project is used rc tiger as Unmanned Ground Vehicle then designed with electronics circuit used linux embedded system Raspberry Pi, GPS sensor, compass, and camera. Tracking waypoint use neurofuzzy is targeted to can move autonomously to waypoint in time performe as same as human operated

In This Final Project have a title Design and Implementation of Tracking Waypoint using Neuro-fuzzy for Unmanned Ground Vehicle Based on GPS.

Kata Kunci: *Unmanned Ground Vehicle, GPS, tracking waypoint, neuro-fuzzy*