**KENDALI KEMUDI KAPAL AUTO PILOT**

**MENGGUNAKAN MIKROKONTROLLER**

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**ABSTRAK**

Sistemkendaliotomatissaatinibanyakdigunakanolehbeberapaalattransportasi di Indonesia, sepertipadakendalikemudikapal.Dimanasudahmenggunakansistemkendali radar yang bisamemantaukondisisekitarkapal, dariarahkapalbergerakbahkanbenda yang terdapatdisekitarkapalsepertikapallain, benda, pulau, karangdllbisadiidentifikasimelalui radar kapal.

Padatugasakhirinitelahdirancangalatsimulasikendalikemudikapallaut auto pilot yang berbasis mikrokontroller. Sistemalatterdiridarisensor kompasdanrangkaianelektronikmikrokontroller atmega32. Denganmengunakan motor servo sebagaialatkemudidan LCD untukmenampilkan data hasildarisimulasitersebut.

Sensor kompasadalahpengaturarahtujuandanditampilkanberdasarkan data sheet motor servo yang menjadikendalikemudikapaltersebut, sehinggasimulasitersebutmenampilkancaramengetahuikesalahanarah yang dialamiolehkemudikapal.

*Kata Kunci :Kompas, Mikrokontroller,KendaliKapal, Motor Servo.*

**SHIP STEERING CONTROL AUTO PILOT**

**USING MICROCONTROLLER**

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**ABSTRACT**

Automatic control systems currently used by several means of transportation in Indonesia, such as the control of steering the boat. Where already use radar control system that can monitor the conditions around the ship, from the direction of the ship even objects that are moving around the boat like other ships, objects, islands, coral etc. Can be identified through the ship's radar.

In this final project has been designed simulation tool control auto pilot steering a ship-based mikrokontroller. Tool system consists of sensors compasand electronic circuits atmega32 microcontroller. By using a servo motor as a steering wheel and an LCD to display data from the simulation results.

Compas sensor is regulating direction and displayed based on the data sheet the servo motor control of the steering of the ship, so that the simulation to show how to determine fault direction experienced by steering the boat.

*Keywords: Compas ,Microcontroller , ship control , Servo Motor.*

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