

DESIGN AND BUILD LAWN MOWERS BASED ON THE INTERNET OF THINGS (IoT)

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ABSTRACT

Design and build lawn mowers based on the internet of things (IoT) is a system designed to drive driving components on lawn machines based on (IoT). In the design and construction of this IoT-based lawn mower, there are several components that play a very important role in the process from the beginning to the end of the work system, including components, namely: Grinder as the driver of the lawn mower blade, NodeMcu as the giver of commands from the blynk to the driver module to drive the motor, blynk useful for sending commands, such as turning the machine on or off, changing the direction of motion, or setting the cutting speed. When the control on the blynk is clicked or given instructions, a signal is sent to the control unit, which then directs the motor to move the knife according to the command. The 12V Voltage test obtained from the power supply will be flowed to the DC motor through the driver module and after measurements are made on the gearbox motor, the results of 12.32V voltage, nominal current 4.13A and starting current 22A are obtained.

Kata Kunci : NodeMcu, Gerinda, power supplay, wifi modem, driver module, gearbox engine.