

DESIGN AND BUILD AN IOT BASED PLANTING ROBOT FOR PEUTS

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ABSTRACT

Peanut farmers currently mostly still use traditional methods in planting peanuts which can drain peanut farmers' energy, time, and costs. To overcome this problem, a solution is needed, where a robot is needed that can plant peanut seedlings that can be controlled using an Internet of Things-based application with the hope of making it easier for farmers in the process of planting peanuts. Based on the test of taking peanut seedlings into the planting hole carried out on 10 planting holes, it showed that the seedlings that were successfully taken into the planting hole were 6 planting holes. For seedlings that did not fit into the planting hole were 2 planting holes. The overall error value is 0.08%. In measuring the uniformity of planting distance carried out on 10 planting holes. the standard distance between planting holes is 20 cm, for the average planting distance measured from 10 planting holes is 20.67 cm, then the overall error value is 1.03%

Keywords: *Peanut planting, Internet of Things, ESP8266, Peanut seedlings.*