

ABSTRACT

With the rapid development of technology, humans are encouraged to overcome problems that often arise, especially in the Purwokerto area. Data from the Meteorology, Climatology and Geophysics Agency (BMKG) shows that the rainy season occurs between November and March. People's concern about leaving their clothes outside because of their busy lives is the main reason. However, weather changes cannot be predicted with certainty. Therefore, some people choose to dry their clothes at home to avoid the risk of rain. However, there are some negative impacts when drying clothes indoors, such as the longer time it takes for the clothes to dry, the humidity in the room increases which causes an unpleasant odor, and the appearance of black stains on the clothes. Facing this problem, From the situation given, the author has a concept or idea to make a prototype of IoT-based Smart Clothesline. This prototype uses a combination drying system using the pull method. The data obtained will provide notifications via the Telegram application. It is hoped that this innovation can benefit many people in the activity of drying and drying clothes, even remotely. The hope is that this solution can be an alternative in dealing with the problem of drying clothes. From the test results it can be concluded that the work system is functioning properly. Namely the rain sensor can detect rain and the signal output is an analog signal with a value of 0-4095 Then the stepper motor test and data sending test can function properly, in the stepper test the performance results are stable when the execution process and drying clothes takes less than 20 seconds, while the data sending test takes less than 2 seconds.

Keywords: *automatic clothesline, Internet Of Things, Esp32.*