

## ABSTRACT

*Efficient movement in many areas is now a government program, one of which is water savings. While these people using a conventional faucet without us knowing it can lead to waste because the lever faucet is not sealed. In addition, with the hand dryer system using ATmega8535 microcontroller using this automated system, can help businesses improve the quality of service businesses in various aspects, especially applied to the field of culinary business that is expected to provide more value for consumers.*

*Therefore, the proposed solution is to manufacture an automatic faucet system and hand dryers. Where the arrangement of automatic faucets and hand dryers has several parts, namely pyroelectric infrared PIR motion detector sensor module top-3224, as a producer of hot-air dryer, solenoid valve to mengeluarkan water from the tap and relay to disconnect or connect the circuit to work automatically.*

*Overall performance of the tool has demonstrated results in accordance with a design that is able to flow water faucets and hand dryers capable of blowing wind. Wherein, the device will work for 5 seconds when a hand movement.*

*Keyword: ATmega8535, pyroelectric infrared PIR motion sensor detector module top-3224, dryer, dan relay.*