

ABSTRACT

The purpose of this study was to develop a Microprocessor-Based Automated Beverage Mixer. This machine is intended to offer a more convenient and user-friendly way of mixing and dispensing coffee drink. The existing machine design limits the number of available coffee drinks that can be dispensed. It is also serving coffee drink that is already mixed and ready for dispensing. Microprocessor-Based Automated Beverage Mixer is intended to mix and dispense requested coffee drink automatically. It has six variations of coffee drinks and hot water. The microprocessor unit is responsible for sequencing and controlling the mixing and dispensing process of the machine.

Results of this study show that automation process using microprocessor unit certainly improved the processes involved in the existing machine. The project prototype was able to improve the mixing and dispensing process of coffee drink. Based on the results of the evaluation conducted, the Microprocessor-Based Automated Beverage Mixer is functional, reliable, safe, and efficient. It acquired an overall mean of 4.61 with a corresponding descriptive rating of highly acceptable, as rated by coffee drinkers and technical experts.