

***DESIGN AND BUILD SYSTEM OF AUTOMATIC CASSAVA SLICER
BASED ON ARDUINO UNO***

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Abstrac

The Design of Automatic Cassava Cutting Tools is useful for helping home industry activities. By simply putting the cassava in the tube and automatically the motor linked to the cutting knife will rotate and will automatically stop when the cassava in the tube runs out. This system uses Arduino Uno and ultrasonic sensors as sensors. Where the ultrasonic sensor detects when cassava is exposed to the ultrasonic sensor, the sensor will instruct the motor to accelerate the rotation of the cassava slicing plate, this will accelerate the performance of slicing cassava. In this slice using a dimmer as a speed regulator on the motor. The result of this cassava slicing design uses a very thin and sharper blade. From the analysis of the tool as a whole, it can be concluded that every rotation on the motor from low rotation and medium to high rotation can be concluded that when the rotation is low there is thickness in the cassava and when the rotation is medium, the slicing of the cassava becomes thin and if the motor condition is high then there is cassava slicing. will break if the rotation is too high. So it is recommended that in this slicing use only medium turns, the slicing will be thin.

Keywords: ultrasonic sensor, motor, relay, dimmer, cassava