

Design and manufacture of a smart dishwasher model

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Abstract: In the context of increasing demands for food safety and energy savings, the design and fabrication of a smart dishwasher model aims to solve the problem of optimizing the cleaning process of kitchen utensils. The project will focus on developing an automated system with smartphone control capabilities, integrating sensors to automatically classify and adjust the necessary amount of water and detergent. The research method is based on combining industrial electronics theory and experimentation to build a prototype product. The expected result is a solution that saves time and energy while optimizing cleaning performance in households, contributing to the sustainable development trend of the kitchen appliance industry.

Keywords: Smart dishwasher, automation, sensors, industrial electronics, food safety hygiene