

## **ABSTRACT**

**Title:** SIMULATION UNIT FOR STAMPING AND CUTTING OF BAR SOAPS

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This project study targets the benefit of the students and professors of DLSU – D’s College of Engineering, Architecture, and Technology. It provides simulation unit that shows the automated processes undergone by a bar of soap which are the stamping and cutting stages done in the conveyor set – up. The project is flexible in terms of its capability to cut the soaps into at least 3 different shapes and its stamping according to the type of bar soap loaded in the conveyor. The soap subjected to the processes of cutting and stamping has two classes; the bath soap and the detergent soap. The implementation of the device and its system require knowledge in microcontroller MCU programming to achieve the flexibility of the project prototype.

One of the major purposes of this prototype project is for teaching tool of the professors handling Industrial Electronics subjects where the main concern is the visualization of Electro – Pneumatic concepts and principles specifically by using cylinder, solenoid and a conveyor. It serves as a demonstration tool to show how a bar of soap is being processed by cutting it into three various shapes and stamping it according to its type.

