# REDUCING OVERALL OVERTIME HOURS ACCUMULATED BY SAN LUIS SOURDOUGH

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## ABSTRACT

The packaging department of San Luis Sourdough Company was redesigned to increase bread throughput and decrease overtime hours issued to employees. Time studies were performed to get an accurate representation of the average throughput of bread with the current packaging conveyor system. After collecting data and surveying the employees and management, we came up with three design solutions to improve their current packaging system. The first design recommendation has a low-investment and is quick to implement as it pertains to changing the worker's schedule to alleviate the employees from working long hour shifts while increasing the bread throughput. The second recommendation with a little higher of an investment cost associated to it is to create a new tracking system as there currently is no way of the company knowing how many bread they have packaged and how close they are to finishing an order. The third and most expensive recommendation is to purchase more conveyor lines. This recommendation was found after running a simulation of the packaging department with different constraints and flexibility. All three of these recommendations save the company money as they would cut down on the amount of production hours needed to complete orders.