

## **ABSTRACT**

PT. Arisamandiri Pratama is a company engaged in the electronics industry such as, TVs, air conditioners, refrigerators, and DVD player. DVD player assembly process in PT. Arisamandiri Pratama is continuous flow which is between the assembly process is a continuous process. PT. Arisamandiri Pratama has problem related to the production process, so PT . Arisamandiri Pratama can not reach the production target. The purpose of this final project is to increase the production throughput of a DVD player at PT. Arisamandiri Pratama and determine the number of work stations in order the production line more efficient.

The methods used are line balancing through the Region Approach and Ranked Positional Weight then it visualized with a simulation using Pro Model 4.0. Through this improvement, the production capacity increase from 887 units DVD player in a day to 1029 units DVD player in a day. In addition, the number of work stations can also be minimized from 24 workstations to 18 workstations.

Key Words : Efficient, Line Balancing, Simulation