

Thesis Title	Application of Barcode Technology for Product Identification in the Automotives Manufacturing
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### **ABSTRACT**

The purpose of this research is to reduce manual paper work process to be applied with the automatic computer instead and to decrease the error. While the manufacturing information can be easily reachable. In addition, the duplicated information can be diminished by using the center server, which can share the information to others. Moreover, this can also save cost by replacing special printed paper to general paper size A4 including to decrease the product claim by customers and the delivery number of mechanical testing for product specifying due to unclear goods labels.

The studied company has participated the research to apply the barcode technology type 39 together by the MySQL as database Server. This project has been started from June to August, 2013, which the overall project budget is approximately at 3,187,210 baht.

The summary of this research found that this method can save 5 man powers along the work process which help to save the labor cost around 1,126,800 baht per annum, and save the paper cost at 1,606,000 per annum. The delivery for mechanical testing can be economized at 859,000 baht per annum, and can save the overall cost at 2,465,000 baht per year. The breakeven point is at 1.29 years and the producing document efficiency has been increased to 90 percent. For document work flow process has increased the efficiency at 99.79%, and the efficiency of data evaluation has been enlarged to 99.79 percent. The product claim by client in 2013 has been decreased at 0.22 time per year from 1.83 times per year in 2012 which count to the percentage at 98.8. Finally, the statistics can be searchable from the server to show that the delivery for the mechanical testing in 2012 was at 427 times per year.