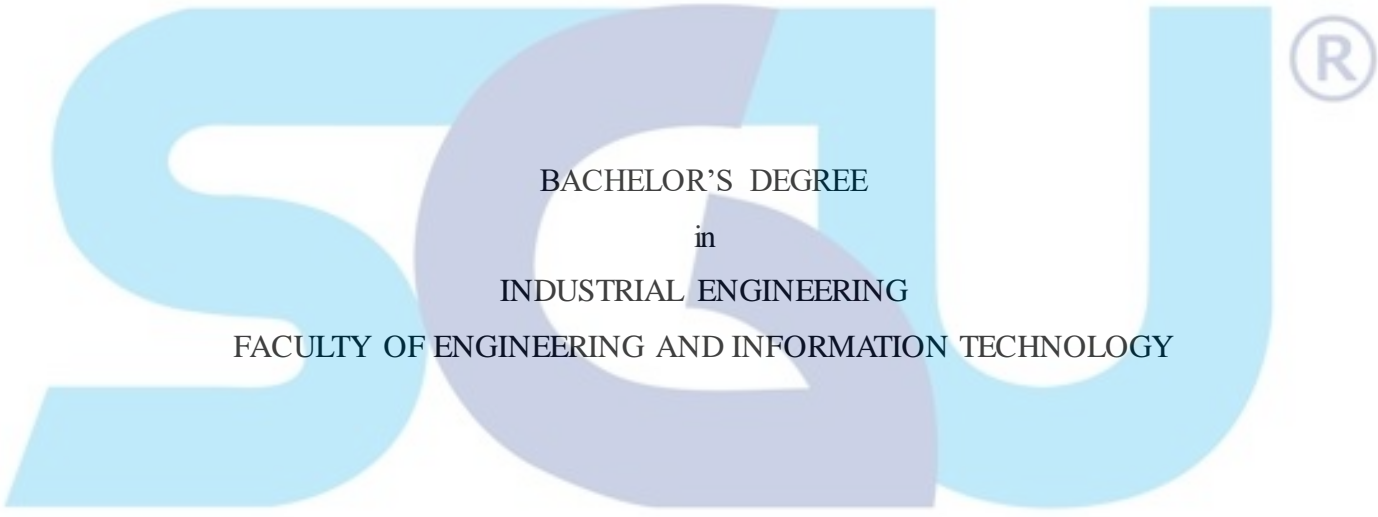


**ANALYZING THE COST & TIME EFFICIENCY OF IMPLEMENTING
DIGITAL TECHNOLOGY FOR FINANCE EXPENSES CLAIM
IN AN ENGINEERING FIRM
(A CASE STUDY IN PT. BINA REKACIPTA UTAMA)**

By

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1-1307-009



BACHELOR'S DEGREE
in
INDUSTRIAL ENGINEERING
FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



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August 2017

Revision after the Thesis Defense on Tuesday, 25th July 2017

STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

ANALYZING THE COST & TIME EFFICIENCY OF IMPLEMENTING DIGITAL TECHNOLOGY FOR FINANCE EXPENSE CLAIM IN AN ENGINEERING FIRM (A CASE STUDY IN PT. BINA REKACIPTA UTAMA)

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Nowadays, the firm required to work in high performance to pursue profit. On the other hand, an Indonesian firm in general operates manually doing their business processes and activities. This dissonance forces them to adapt and improvise, especially, the finance expense claim process. This process is to pay back a certain amount of money, which employee charges to their firm. The aim of this research is to analyze the cost and time efficiency on doing finance expense claim manually compared to the implementation of the automated workflow management system to give an empirical result while at the same time help firm decides a better process to be used. This research started after the problem identified, continued by various literature reviews. Data analysis is based on the identification of cost elements (material, labor and expense), followed by the calculation of total cost based on cost behavior (fixed cost and variable cost). The research ended with giving answers and solution related to the problems. In conclusion, this research proves that the implementation of the automated workflow management system in finance expense claim business process increase cost efficiency, and increase cycle time efficiency. However, in the same time the lead time efficiency not increased.

Keywords: Efficiency, Cost Efficiency, Time Efficiency, Cost Elements, Cost Behavior, Workflow Management System (WFMS), Automated Workflow Management System, Finance Expense Claim.



DEDICATION

I dedicate this research to GOD, my beloved family,
my advisor, my co-advisor, my lecturers, my friends,
PT. BIRU, anyone who might benefit from this research
and my future career.



ACKNOWLEDGEMENTS

First and foremost, I want to express my gratitude to GOD for His infinite blessing and guidance throughout the progress and success of this research especially, through people around me. I would like to express my gratitude to the following people:

- Mrs. Rindawati Maulina, ST, MT, M.Sc., as my thesis Advisor of this research. Thank you for involving me on this topic research. Your motivation and advice has made this thesis a lot easier, including other knowledge about professional life beside this thesis.
- Mrs. Ir. Triarti Saraswati, M.Eng, as my thesis Co-Advisor of this research. Thank you for your support, especially in giving unexpected insight related to data analysis and thesis writing.
- PT. Bina Rekacipta Utama (BIRU), especially Ms. Tuti and Ms. Iis, thank you for giving me the chance to be able to conduct a research on their company despite the tight work schedule and for all supports providing data for this research.
- My family, my father (Djoni Haryono), my mother (Tina Aihta), my brother (Peter Oliver) and my sister (Sophie Grisella Olivia) for their support, care and attention despite of their limitation in my thesis topic.
- My friends from Industrial Engineering batch 2013 during 4 years in SGU.
- My friends from Mrs. Rinda advisory group Surya and Ano for driving together to take data or consultation.
- Belajar sehat group Akmal, Debra, Febri, Fefe, Iod, Ivan, Matteo, Reno, Unga and Apip.
- My high school friends (神经病) group Anton, Bernard, Billy, Ciko, Dayna, Fredo, Jeanika, Ann, Medy, Novi, Ronnie, Bebe, There and Icon for giving laughter and energy.
- To everyone else, who directly or indirectly give their input for this thesis.

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