ACKNOWLEDGEMENT

I, as the author, would like to give my best gratitude to Allah Subhanahu Wa Ta'ala, for giving the author the blessing and guidance to finish the final year project titled "FLOWSHOP SCHEDULING WITH SEQUENCE DEPENDENT SET-UP TIME USING IMMUNE ALGORITHM TO REDUCE MAKESPAN IN PT. XYZ BANDUNG AS A TEXTILE INDUSTRY". The author also would like to give the most respect to Prophet Muhammad Shalallaahu 'Alayhi Wasallam as the ideal man of the world.

Further, the author would like to thank all people who also contributed in finishing this final year project, with truly appreciation the author want to thank to:

- 1. My dad, Harmansyah Nasution, and my mom, Muliasari Hartanti, who always support me and encourage me to finish this research and to follow my dream. I cannot say enough thank you and cannot show my gratitude enough to both of you. May Allah Subhanahu Wa Ta'ala always bless you and protect you ma, pa.
- 2. My advisors. Mrs. Dida Diah Damayanti, S.T., M.Eng.Sc. and Mrs. Ir. Widia Juliani, M.T. who always guide me, advice me, motivate me, and all the things you share with me to finish this final year project.
- 3. My big family. My Brothers, Ghaffa and Abshar, my grandfather, cousins, aunts, uncles, who always support me to finish this final year project.
- 4. All lecturers and staff of Industrial Engineering Faculty, thanks for the lessons and cooperation for all these years.
- 5. Naim, who always listen to my complains, who always be there when I need help, who always motivate me. I just don't know what to say! Thank you so much!
- 6. Family-gang! The all-you-can-do Fadhilah, the become-wise Fikri, the funny Hario, the okay-*lah* Dika. Thanks for the journey and so-many-things we spent together! God speed!
- 7. Hijab-gang! Fadhilah, Septi, Dinda, Tria, Iwiw who always motivate each other and gang-up! Success for us!

- 8. My-everything-mate, Sarah, thank you for the time we spent together! God speed!
- 9. Lunatrix members (TI-38-01). Thanks for the past 2 years we fight together! Good luck!
- 10. Yoipace team. Rani and Sarah, who always being understanding and inspiring. See you on top!
- 11. Sispromasi Laboratory 2014 Assistant. You guys are just amazing and I cannot say how grateful I am to know you all and have you all! See you on top!
- 12. All my friends. Tiara, Azmi, Fatimah, Shinta, Andris, Adam, Mutia, Fajar, Kak Ana, Hanif (who help me with the application used in this research. Thank you so much nif!), Nala (who knows everything about me), and the others. Thanks to all of you!
- 13. All parties who are not listed that have directly or indirectly helped author in finishing this final year project.

May Allah Subhanahu Wa Ta'ala always bless and surround you all with kindness.

The author realize there are many mistakes though in this final year project. Thus, critics and suggestion are welcomed to improve this research. Lastly, the author hope this final year project can be beneficial for other parties.

Bandung, January 2018

Author