# DEVELOPMENT OF SCHEDULING PROGRAM AT STAMPING TOOLS DIVISION P.T. MEKAR ARMADA JAYA MAGELANG

**THESIS**

**A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Bachelor of Engineering in Industrial Engineering**


**DANANG LIMANTORO**

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**INDUSTRIAL ENGINEERING DEPARTMENT**

**FACULTY of INDUSTRIAL TECHNOLOGY**

**UNIVERSITAS ATMA JAYA YOGYAKARTA**


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**ON**

**DEVELOPMENT OF SCHEDULING PROGRAM AT STAMPING TOOLS DIVISION P.T. MEKAR ARMADA JAYA MAGELANG**

was examined and approved
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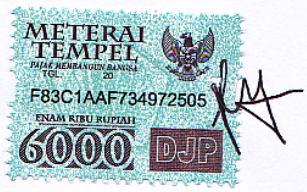
**STATEMENT OF ORIGINALITY**

I certify that I am the author of this thesis and that no part of this thesis has been published or submitted for publication. I certify that, to the best of my knowledge, my thesis does not infringe anyone's copyright nor violate any proprietary rights and that any ideas, techniques, quotations, or any other material from the work of other people included in my thesis, published or otherwise, are fully acknowledged in accordance with the standard referencing practices.

**Yogyakarta, September 2011**




**Danang Limantoro**

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To S.J. that was, is, will be, and always be there.

## FOREWORD

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**ABSTRACT**

The scheduling plan at Stamping Tools Division P.T. Mekar Armada Jaya has some problems. The schedule plan created cannot be finished the demand in time. It happens because they schedule an item that has not been finished yet. The result of this condition is items cannot be processed and must wait until the previous operation has finished. Those makes the makespan increases and the item cannot be processed as scheduled.

This thesis is made to solve the problem in the schedule plan. The program is developed using Microsoft Excel 2007 and Visual Basic for Application based on Schedule Geration. There are 3 priority rules can be chosen in the program. Using the program, schedule plan can be generated in a short time, automatically, and with minimum errors.

From the result, the program can solve all the problems in the previous schedule plan. Also, in the given period of time, MWKR is the best priority rules for Stamping Tools Division P.T. Mekar Armada Jaya.

**Keyword: Schedule, Scheduling, Makespan, Schedule Generation.**