

**THE MODELING OF END MILL AND HIGH SPEED MILLING  
OF P20 STEEL AND MILLING EXPERIMENT STUDY**



A Graduation Project Report Submitted by

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**APPROVAL**  
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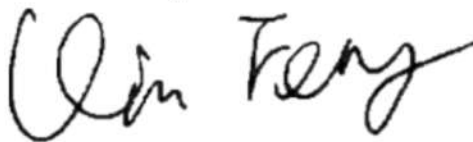
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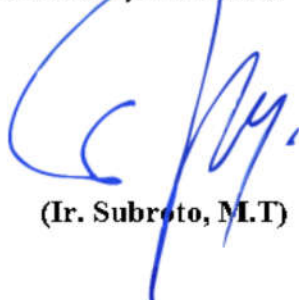
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## **FOREWORD**

Thank God Allah SWT that has given His-mercy and guidance, so writer can accomplish this Graduation Project Report as time scheduled.

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## **ABSTRACT**

*P20 steel is widely applied in mold industry. When it comes to determine an optimal parameter and suitable milling tool among tool available, experiments cost too much and may waste a lot of time compared with some simulation methodologies. In this project, the geometry modeling for 2-3 flutes end mills with diameters of 6mm, 8mm, and 10 mm are to be generated with Catia V5 and there after milling simulations with the designed tools using Third Wave Advant Edge software would be combined with several parameters are to be conducted to get an optimal parameter group and the best end mill. Finally, some milling experiments will be conducted to verify the simulations.*

**Key Words: P20 Steel, End Mill, Catia V5, Third Wave Advant Edge.**