

A PROJECT TO DESIGN AND DEVELOP AN AUTOMATIC TILT TABLE

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ABSTRACT

My project title is to “Design and Develop an Automatic Tilt Table”. In this new era, almost all of the engineering equipments are using machine control device to make work efficiently, precisely and the main thing is to reduce the operating cost. My prototype is to improve the current design on the market whereby I apply machine components and electronic circuit for it to operate. After 6 semesters of studying the theoretical parts, I had proved to myself whereby it has come to an end to show and apply my skills in designing the “Automatic Tilt Table Prototype”.

Throughout the report, I will be explaining about the construction of the project which consists of the structural design, mechanical design, electrical and electronics circuit design and how it operates. Besides that, in order to know in details, block diagrams, PIC 16F84A programming language (Assembly language), and mechanical calculations are inserted in this report.

To get more clear view, technical drawings using autoCAD and list of photos are available in the Illustration section. I hope by these brief explanations, readers will understand about the concept of this project.

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