



# **FABRICATION OF FILAMENT WINDING MACHINE**

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## **ABSTRACT**

The project of 'Filament Winding Machine' has been carried out by the final year student of Bachelor Engineering (Hons) Mechanical under supervision of Dr. Zahurin Abd. Halim. The purpose of this project is to understanding the concept of filament winding machine and also to fabricate the portable size of filament winding machine. The project has started with collecting and gathering information process through several sources like books, journal, Internet and also by referring to the available machine whether in the market and also referring to other higher level institution. The designing of the machine has been design by referring to available portable sized machine. The developing of the drawing of the actual design has been done by CATIA V5R10 software. The process of the fabrication of the filament-winding machine has been done at the mechanical workshop and several processes are applied like machining, drilling, welding and others. Several aspects like aspect of cost and choosing the right material to use has been considered in term to reduce the cost and also to make sure the machine can be used in a long time of period. After completed the machine, the machine was tested in order to see whether the machine could functioning properly e.g. wounding the filament.

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