

Department : **Mechanical**

Year : **2015-2016**

Group No: **38**

Guided By

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**Project Title**

**DESIGN AND CONSTRUCTION OF AN AUTONOMOUS  
ORNITHOPTER**

**Abstract:**

In recent years the subject of flying vehicles propelled by flapping wings, also known as ornithopters, has been an area of interest because of its application to micro aerial vehicles (MAVs). These miniature vehicles seek to mimic small birds and insects to achieve never before seen agility in flight. In order to better study the control of flapping wing flight we will developed a large scale ornithopter called the Phoenix. It is capable of carrying a heavy (400gram) computer and sensor package and is designed specially for the application of controls research. The design takes special care to optimize payload capacity, crash survivability, and field repair abilities.

**Prepared By:**

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