ABSTRACT:

- Today Unmanned aerial vehicles (UAV) have found widespread use and may have been using them to capture various events or take photographs of operational areas, but the fact is that UAVs or quadcopters, which are some of these flights, are still at the beginning of their journey and can be future applications will be more widely used.
- Given the geographical situation and the current situation in the world, the country needs to step up with the world in order to strengthen the defense forces. One of the tools that have been used in recent decades to other tools due to their characteristics and their unique features, including the absence of human casualties, the study and more precise missions.
- Many countries including our country using unmanned aerial vehicles. Many researchers have been carried out on these devices today. In the same way, our researchers in our country have done a lot of researches on this device in recent years and tried to make these birds with the least cost and with the highest efficiency.

ABSTRACT:

- Based on a structure analysis and on the most common flying modes, firstly the paper analysis mechanical stresses on the UAV quadcopter body frames using analysis Methods.
- Secondly, it analyses the results highlighting the weak aspects of the structure in order to predict possible failure mechanisms and to create effective approach for guaranteeing high level of product reliability and availability.
- This project work analysis different designs with various kind of materials and note that responses to analyse.