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Title

Feasibility Study Conducted for the Development of an Autonomous mini Unmanned Air Vehicle

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Abstract

A feasibility study has been conducted for the development of an autonomous mini unmanned air vehicle of 2 KG class. As part of the feasibility study, literature survey was conducted to evaluate different airframes, their mission capabilities, and the advantages of one over the other. A conceptual design has been suggested wherein preliminary aerodynamic analysis has been conducted to arrive at an optimum airframe configuration. Propulsion system has also been evaluated to maximize the endurance for this configuration. A suitable payload has been suggested for the mission.