Abstract

The purpose of this paper is to present a preliminary design of a mini unmanned aerial vehicle. The design itself was based on the requirement of an international universities competition sponsored the national office for studies and researches of aerospace sciences ONERA-FRANCE (Office National d'Etudes et de Recherches Aerospatiales). For complying with competition regulations the UAV should not exceed 70 cm in any dimensions, and capable of flying outside the direct field of vision of its pilot. The vehicle is intended to be used as aid to infantry troops located in hostile territory. The intended aid function is of a non-aggressive nature. Its purpose is to provide an extension to the nature field of vision of the infantry soldier.