# HAMAV – description

Stratospheric missions allow us to forecast the weather and also broaden our horizons in many fields, for example astrobiology. However, whenever we send a balloon into the stratosphere it gets blown off course which makes it hard to find and retrieve the experiment. To address this problem, we decided to design a drone (HAMAV) that could, after being lofted into the stratosphere suspended from a balloon, return with a scientific payload to the location of launch. We produced a prototype that we put through a series of rigorous tests, during which it became the worlds’ first micro class drone to return from the lower layers of the stratosphere carrying a scientific payload. The data and experience that we gathered during our tests allowed us to outline a path for further development of the HAMAV, that we are currently following in order to ready the drone for a voyage 30km above the surface of the earth.